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FIFTEENTH ANNUAL REPORT

RELATING TO THE REGISTRY AND RETURN OF

BIRTHS, MARRIAGES, AND DEATHS,

IN

MICHIGAN FOR THE YEAR 1881.

BY THE

SECRETARY OF STATE

OF THE

STATE OF MICHIGAN.



BY AUTHORITY.

LANSING, MICH.: W. S. GEORGE & CO., STATE PRINTERS AND BINDERS. 1884.

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MICHIGAN DEPARTMENT OF STATE, OFFICE OF THE SECRETARY, LANSING, April 18, 1884.

HON. JOSIAH W. BEGOLE, Governor of Michigan:

SIR,—I have the honor to submit herewith the Fifteenth Annual Report relating to the Registration and Return of Births, Marriages, and Deaths in Michigan during the year ending December 31, 1881.

With the accompanying tables and exhibits appear such introductory remarks and computations as seem suitable to assist the reader in the study of them, and as aids in reaching correct conclusions.

The subjects presented for consideration in the present volume are as usual those concerning the deepest social interests of our people, namely, that of the natural increase of our population, the social element of marriage, and the subject of mortality. An effort has been made to collect and classify, in the most perfect manner, all the evidence obtainable relating to these subjects. This is done in order to facilitate their study, and the examination of the forces and combination of forces and their laws, both physical and social, that are continually influencing the particulars of which they treat. It is to the work of unfolding these laws and of illustrating these principles that the returns of births, marriages, and deaths of a people are of great assistance. Without these aids, problems concerning the growth and decay of the race would lack essential conditions for their solution. Every year adds to the general fund of information in regard to these most important subjects.

In dealing with the abstract numbers of births, marriage, and deaths it is highly important to take into consideration the population in which those events occurred. It is necessary to know something concerning the living people in any State in order to arrive at correct comparisons of the vital statistics of that State. This is done as far as circumstances would permit in the present work.

The natural increase of population in Michigan, or excess of births over deaths, during the year 1881, was 15,511. The number of marriages solemnized in Michigan in 1881 was 14,847, an increase of about 700 over that or the preceding year. About 60 per cent. of the marriages were

parties were born in the United States, and where both parties -born it was about 18 per cent. A considerable proportion of the

marriages were among parties where one was native-born and the other foreign-born.

There were 19,238 deaths returned to this Department for the year 1881. Of the fifteen principal causes of deaths, shown on page 247, diphtheria stands first in order, 2,063 deaths being returned from this disease alone, a larger number than ever before reported in Michigan. The same number of deaths from diphtheria occurred among both males and females.

On page 160 it will be seen that there is a decided reduction in the mortality-rate in each of the five general classes as compared with the average for ten years ending with 1880, with the single exception of the zymotic class, which shows an increase of eight per cent. The most important decline, as compared with the average for the ten years, is in the constitutional class, the ratio in 1881 being 14.21, while for the average of ten years it is 17.22 per cent. of the deaths from all causes. A diminution in almost the same degree marked the number and per cent. of mortality from diseases called local. Deaths by violence were nearly the same, in number and in proportion, in 1881 as in the average. The various diseases which compose each class may be seen in table XVI., page 164.

This volume of vital statistics adds one more to the list already published in this State, and is presented to the people of Michigan with the sincere wish that it may prove of interest and value.

Respectfully submitted,

Secretary of State.

BIRTHS, MARRIAGES, AND DEATHS,

IN MICHIGAN,

DURING THE YEAR 1881.

The accompanying tables and exhibits constitute the Vital Statistics of Michigan for the year 1881, and the Fifteenth Annual Report of the Secretary

of State on this subject.

It appears from the first exhibit, where a concise statement is made of the registration for the year 1881, that there were returned to the State Department 34,749 births, 14,847 marriages and 19,238 deaths. An opportunity is also afforded for comparison with the previous years in each of these divisions of births, marriages, and deaths. It is seen that the births are 574 less than the number returned for the year 1880, 627 more than the number returned for the year 1879, etc. The average number of births for the ten years 1872-1881 is 33,270.

The total number of marriages returned in 1881 was 14,847, which is 187 more than is returned for the year 1880, and is the largest number ever reported for a single year. The average annual number of marriages for the ten years 1872-1881 is 12,671, which is 2,176 less than the number returned

for the year 1881.

The number of deaths returned for the year 1881 is 19,238, which is greatly in excess of that for any previous year. As compared with those recorded in 1880, this number shows an increase of 3,136, and it is 6,176 more than the average annual number for the previous ten years (1871-1880). The cause of this large increase in the number of deaths is greatly the result of the fatal epidemics of diphtheria, scarlet fever, and other diseases. From diphtheria alone there were returned 2,063 deaths, which is 521 more than the number recorded for 1880.

We see, then, that the number of births returned for 1881 is some less than those recorded for 1880, while the marriages and deaths show a marked increase. The natural increase of population, or excess of births over deaths, is 15,511, or 3,710 less than in 1880. When the births and deaths are corrected for omissions in the enumeration the excess of births over deaths is 22,413, which is undoubtedly nearer the true number than the other, as the average annual excess of births over deaths, as returned for the previous ten

years, 1571-1880, is 19,332, which shows that the year 1881 is far below as average one as regards the natural increase of population.

EXHIBIT A.—Births, Marriages, and Deaths Returned as having occurre in Michigan during each of the Years 1876 to 1881, inclusive, includin those in unknown month, as Returned, and as Corrected for Omissions in the Enumeration.

		1576.	1977.	1878.	1979.	1860.	1881.
	Marriages	11,893	11,844	12,829	13,816	14,660	14,8
Returned	Births	34,235	23,395	35, 163	34,122	35,323	34,74
ž.	Deaths	12,576	12,9 b)	12,766	14,407	16,102	19,2
*	Excess of Births over Deaths	21,639	20,476	22,396	19,715	19,221	15,5
42 5	Deaths	45,172	50,203	52,145	50,100	50,613	49,8
0	Deaths	18,389	18,341	18,866	20,563	26,256	27,3
	Excess of Births over Deaths	26,783	31,962	23,279	29,517	24,387	22,41

[.] Corrected, for additional returns, up to Feb. 8, 1883.

In the following exhibit are presented many important relations between the births, marriages, and deaths to the population of the State. Any study of the abstract numbers of births, marriages, and deaths, would be very unsatisfactory, which did not include some statistics of the population where those events took place. The census returns of 1880 are used in making the calculations for the year 1881, and the increase in the population must be taken into consideration when the observations are compared with those of the previous year. In making this allowance it should be borne in mind that the computations are made on the same basis of population. The average annual rate of increase in the population between the years 1870 and 1880 was 3.29 per cent. This is undoubtedly a near approach to the rate for the present year, and this being true, the estimated population of Michigan for the years 1881 is 1,690,809, an increase of 53,872 over the actual population in 1880.

EXHIBIT B.—Statements concerning Births, Marriages, and Deaths in Michigan during the Years 1876-1881, inclusive.

	1876.a	1877.4	1878.	1879.**	1880.5	1881.
Inhabitants represented by returns of marriages to one marriage. In population represented by marriages, males to	112,07	112.48	103.99	96.54	111.66	110.25
one marriage.	58,56	58.78	54.34	50.45	58.82	58.08
to one marriage	53.51	53.70	49.72	46.09	52,83	52.17
returned	38.56	39.82	37.78	38.76	46.07	46.90
Inhabitants, males to each male child returned	38.86	40.33	38.09	* 38.90	46.61	47.82
inhabitants, females to each female child returned	38.38	39.42	37.60	38.71	45.65	46.08
inhabitants represented by deaths to one death	104.74	102,28	103.32	91.49	100.86	84.31
ahabitants, males to one death of male	101.84	101.08	103.83	91.53	98.86	83.18
inhabitants, females to one death of female	109.21	104.51	103,64	91.95	103.84	86,23
Deaths, males to 100 females	117.27	113.03	109,04	109.84	116.67	115.19
Births, males to 100 females	108.05	106.94	108.02	108.83	108.79	107.13
Total population of State, males to 100 females	109.47	109.47	109.47	109.47	111.33	111,33
Births to one death	2.72	2.58	2,75	2.37	2,19	1.81
Births, males to one death of male	2.63	2.52	2.75	2,36	2.13	1.75
Births, females to one death of female	2.85	2.67	2.77	2,38	2.28	1.88
Children born of which the sex was unknown or not stated	56.00	59.00	67.00	48.00	62.00	61,00
Decedents of which the sex was unknown or not	59,00	52.00	52.00	37.00	47.00	65.00
Natural daily increase of population, as per births and deaths returned Natural daily increase of population, when returns	59,34	56.10	61,35	54.01	52,52	42.49
are corrected as in 4th line of exhibit A, page 6, and exhibit C, page 110	73.38	87.29	91.17	80,95	66.63	61.41

^{*} In computing statements for this column, the inhabitants in 1874 were used.
* In computing statements for this column, the inhabitants, June 1, 1880, were used.
* Marriages, corrected for additional returns up to Feb. 8, 1883.

Table I. shows the number of births, marriages, and deaths in Michigan for certain specified periods of time during the year 1881. It is seen that the daily average of births is 95.20; the daily average of marriages is 40.68; and the daily average of mortality is 52.71, while the daily natural increase of population, or excess of births over deaths, is 42.49.

It is also seen from exhibit B that one child was born to every 46.90 persons, that one marriage was solemnized to every 110.25 persons, and that one

death occurred to every 84.31 persons.

The birth-rate then is 21.28 to every 1,000 of population, the marriage-rate 9.09, and the death-rate 11.90 to every 1,000 of population. The above figures would be modified somewhat if the estimated inhabitants for 1881 were used instead of the actual population of the State in 1880.

TABLE I.—The number of Marriages, Births, Deaths, and Excess of Births over Deaths in the State of Michigan during the Year 1881, and the Average Number and Excess during Specified Periods of Time within the Year as Returned, and the same for Births and Deaths as Corrected for Omissions in the Enumeration.

	PERIODS OF TIME,—1881.	Marriages, 1881.	Births, 1881,	Deaths, 1881.	Excess of Births over Deaths.
	Year, 18814	14,847.00	34,749.00	19,238.00	15,511.00
	Quarter	3,711.75	8,687.25	4,809.50	3,877.75
	Month	1,237.25	2,895.75	1,603.17	1,292.58
	Week	285,55	668.25	369.96	208.20
	Day	40.68	95.20	52.71	42.49
	Year, 1881b		49,800.00	27,387.00	22,413.00
ted.	Quarter		12,450.00	6,846.75	5,603.25
rrec	Month		4,150.00	2,282.25	1,867.75
as Corrected.b	Week		957.69	526.67	431,02
-	Day		136.44	75.03	61.41

[.] Unknown month included.

Exhibit 1 gives, by months, the number of births, deaths and excess of births over deaths for each of the years 1876-1881. As will be seen, the average excess for the nine years is much larger than the excess for the year 1881. In the average for nine years the largest excess appears for the month of December, while in the year 1881 the largest excess is in the month of March.

b Corrected as enumerated in months of occurrence.

EXHIBIT 1.—By Months, the Births, Deaths, and Excess of Births over Deaths, according to the Returns, in Michigan during each of the Years 1876 to 1881, inclusive.

				7	1		-	MONTHS	r II S.				1	
		TOTAL."	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
	Births	84,131	2,283	2,352	2,744	2,730	2,870	9,739	3,014	3,194	8,110	3,039	2,921	3,205
1s76	Deaths.	12,545	685	800	975	978	970	855	1,079	1,507	1,123	1,131	980	1,158
	Excess of births	21,586	1,598	1,552	1,769	1,752	1,900	1,884	1,935	1,617	1,687	1,908	1,932	2,052
	Dirths	33,324	2,212	2,246	2,690	2,655	2,083	2,657	2,809	3,227	8,048	3,015	2,847	3,145
1877	Deaths	12,863	766	813	066	978	976	875	1,040	1,559	1,400	1,22,1	1,060	1,155
	Excess of births.	20,461	1,446	1,403	1,700	1,677	1,707	1,782	1,859	1,668	1,648	1,704	1,787	1,990
	Births	35,130	2,201	2,414	2,836	2,937	2,805	2,797	2,835	3,205	3,260	3,266	3,061	3,423
1878	Deaths	12,742	730	780	930	1,029	923	870	1,017	1,371	1,343	1,190	1,181	1,369
	Excess of births.	99,388	1,471	1,625	1,906	1,908	1,882	1,927	1,818	1,924	1,917	2,076	1,880	2,054
107	Births	34,092	2,429	2,331	2,758	2,700	2,842	2,626	3,018	8,198	3,149	3,036	2,766	3,933
1870	Deaths	14,366	903	993	1,114	1,174	1,083	803	1,183	1,537	1,403	1,286	1,268	1,521
050	Excessof births	19,726	1,526	1,339	1,644	1,552	1,759	1,794	1,835	1,661	1,746	1,750	1,498	1,713
1	(Births	35,323	2,355	2,513	2,850	2,824	2,880	2,772	3,011	3,285	3,278	8,173	8,008	8,278
1880	Deaths	16,102	860	1,002	1,149	1,280	1,166	1,036	1,527	1,780	1,676	1,471	1,486	1,617
	Excess of births	19,221	1,495	1,511	1,701	1,535	1,714	1,730	1,484	1,505	1,602	1,70%	1,582	1,661
	(Births	34,719	2,303	2,432	2,835	2,805	2,887	2,712	3,027	3,313	3,204	8,078	2,854	8,179
31	1881 Deaths	19,172	1,065	1,078	1,315	1,427	1,457	1,276	1,701	2,246	2,301	1,041	1,617	1,748
	(Excess of births	15,547	1,328	1,354	1,520	1,378	1,430	1,436	1,326	1,067	803	1,187	1,237	1,431
onthiyav	Monthly averages of excess for 1873 to 1881, inclusive	19,768	1,413	1,382	1,639	1,599	1,698	1,718	1,736	1,647	1,643	1,725	1,714	1,856

a Unknown month excluded.

EXHIBIT 2.—Births Returned as having occurred in Michigan, by Months, during the Year 1881, and Murriages and Deaths during Months of Conceptions of the Births,-ull Months Equalized to Uniform length of 30.44 days.

						M	ONTE	18,-1	881.					
	Total,a	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Av. Mo.
Births, 1881, equal- ized to months of uniform length	34,730	2,350	2,644	2,784	2,846	2,835	2,752	+ 2,973	+ 3,254	+ 3,251	+ 3,023	+ 2,896	+ 3,122	2,804
Births, 1881, correct- ed for omissions in a enumerating, and a equalized to months of uniform length.	49,817	3,941	+	+ 4,432	+ 4,412	+ 4,274	4,032	+ 4,230	+ 4,492	+ 4,352	3,918	3,631	3,782	4,151
				A	IONT	нв,-	1880				3	1881.		
	Total."	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Av. Mo.
Marriages, equal-	14,746	1,159	1,020	1,033	1,112	1,037	+	+	+	+ 1,521	1,141	1,151	1,134	1,229
Deaths, equalized to months of uni-	16,503	1,308	1,145	1,051	+	+	+	+	+	+	1,046	1,171	1,292	1,375
Deaths, corrected for omissions in enumerating, and { equalized to months }	26,018	+ 2,394	2,023	- 1,790	+ 2,457	+ 2,752	+ 2,569	2,090	2,085	2,094	1,766	- 1,929	2,069	2,168
of uniform length. [Deaths, corrected and equalized, equalized to months of]	26,579	+ 2,470	- 0.000	1,834	+	+	+	-	-	2,101	-	-	-	2,216

. Excluding unknown month.

b Corrected for additional returns up to Feb. 8, 1883.

Many interesting and important influences which the births, marriages, and deaths sustain to each other may be seen in Exhibit 2. It will be seen that the larger number of births in the months of July, August, and September of the year 1881 appear to have been coincident with the large number of marriages which were solemnized in the months of October, November, and December of the year 1880.

In Exhibit 2 the plus and minus signs indicate, respectively, that in the months where they occur the number under the sign is greater or less, as the case may be, than the number for the "Average Month."

Before the births are corrected for omissions, the first six months have less, and the last six months have more, than the average monthly number.

Using the number of births returned and equalized by months as the data,

proposition may be made as follows:

(1.) More than an average number of conceptions occurred in months in which more than an average number of marriages were solemnized, and less than an average number in months in which less than an average number of marriages were solemnized.

ore, holds true in eight of the twelve instances, and proposition 2 in six. If the births and deaths corrected for omissions are (2.) Less than an average number of conceptions occurred in months in which more than an average number of deaths occurred, and more than an average number of conceptions in months in which less than an average number of deaths According to Exhibit 2, there are four exceptions to the first proposition, and six to the second. Proposition 1, thereoccurred.

EXHIBIT D. -Grouping the Evidence of the Vital Statistics on the subject of the Comparative Natural Increase of Native and of Foreign-born Inhabitants of Michigan, by Excess of Births over Deaths, according to the lichards, the Evidence thus studied in connection with marriages, proposition I holds true in seven and proposition 2 in six out of the twelve cases. Exhibited Covering the Years 1876 to 1881, inclusive

	Both Parents of Chil- dren Foreign. Deaths of Foreign-born.	11,560 4 3,407 8,153
1881.	Both Parents of Chil- dren Zative. Deaths of Zative-born.	15,907 • 15,402 505
	Total.	o 34,740 b 19,238 15,511
	Both Perents of Chil- dren Foreign, Deaths of Foreign born.	11,982 d 2,962 9,020
1880.	Both Parents of Chil- dren Native, Deaths of Native-born,	16,274 • 12,572 3,702
	.IntoT.	* 35,324 b. 16,102 19,221
	Both Parents of Chil- dren Foreign. Deaths of Foreign-born.	11,369 d 2,458 8,911
1879.	Both Parents of Chil- dren Zative. Denths of Zative-born.	15,864 • 11,495 4,369
	JajoT.	* 34,192 b 14,407 19,715
	Both Perents of Chil- dren Foreign. Desibs of Foreign-born.	11,992 d 2,237 9,755
1878.	Hoth Parents of Chil- dren Zative. Deaths of Zative-born.	16,323 * 10,183 6,140
	Total.	4 35,162 4 12,766 22,396
	Both Parents of Chil- dren Foreign. Deaths of Foreign-born.	11,557 d 2,251 9,306
1877.	Both Parents of Chil- dren Native-born, of Native-born,	15,270 e 10,305 4,965
	.laioT	n 33,395 b 12,919 20,476
	Both Parents of Chil- dren Foreign, Deaths of Foreign-born,	11,901 4 2,078 9,823
1876.	Both Parents of Chil- dren Mative. Deaths of Mative born,	15,551 • 10,147 5,404
	.fatoT	* 34,235 \$ 12,576 21,659
-	BIRTHS, DEATHS, AND EXCESS OF BIRTHS OVER DEATHS.	Births by parent a 34,235 nativity in 12,576 Excess of births over deaths. 21,639

. Includes children of mixed parentings and those where the nativity of one or both parents is unknown.

Includes deaths of persons of unknown nativity.
 Includes all deaths of persons born in the United States, whether born of native or of foreign born parents.
 Includes only persons who were born in foreign countries.

TABLE II.—Exhibiting, by Sex, the Population in 1880, the Number of Marriages, Births, and Deaths, and the Excess of Births over Deaths, in Michigan during the Year 1881, according to the Returns.	2 8	Sex, over	the Po. Deaths	pulation 1, in Mic	in I higan	880, t durin	he Ni g the I	ear 1	of Mar 881, a	riages ccordi	Birtling to t	is, and he Ret	Deat urns.	hs, and	d the	Excess
Рорстатіом, 1880.	10%, 1890,	00.				Вівтив, 1881.	, 1881.			DEATH	DEATHS, 1881.		Excres	Excres of Births over Deaths	S OVER I	EATES.
SEX. Marriages,			Marriages 1881.	<u>.</u>			SEX.				BEX.	i			BEX.	
Maics. Females.	Females.				Total.	Males.	Fe- malez.	Un- known	TOTAL	Males.	Fe. males.	Un- known.	Total.	Males.	Fc. males.	Un- known.
1,636,937 862,355 774,589 14,847	714,583		14,847		34,749	17,941	16,747	19	19,238	10,263	8,910	8	15,511	7,678	7,837	4
3,107 1,945 1,162 14	1,162		71		84	15	27		13	7	25		8	80	ឌ	
37,815 19,732 18,063 872	18,083		873	_	88	427	104	61	717	212	197	i	817	213	, 1 00	63
8,789 5,161 3,628 100	3,628		100		88	113	113		717	7.	\$		21	8	22	
5,237 2,867 2,370 36	2,370		8		140	=	8		22	8	\$		8	27	ន	
1,804 1,036 768 16	897		18		123	27	83		18	7	ıı		37	20	11	
25,317 13,284 12,083 199	12,083		199		8	233	8778		8	88	164		96	901	26	
38,061 21,098 16,893 302	16,893		303		1,160	938	534		149	306	236		619	321	868	
3,433 1,862 1,571 43	1,571		£		98	23	છ		8	SS.	g	i	3	ន	21	
36,735 18,806 17,980 562	17,980		262		818	8	287	:	307	120	126	-	311	181	131	7
27,941 14,240 13,701 251	13,701		231		410	800	210		255	157	86	-	155	£	112	
38,452 19,599 18,853 329	18,853		88		247	88	243	•	426	223	136	1	121	76	47	7-
22,009 11,350 10,659 261	10,659		196		88	82	179	:	176	88	16		162	74	88	:
5,115 2,743 2,372 54	2,372		Z,		125	19	2	i	70	27	22	i	11	ಹ	37	:
6,524 3,760 2,764 73.	2,764	_	8		193	97	8		130	28	28	i	8	88	3	į
5,248 2,906 2,342 52	2,342		22		8	8	8		01	ю	ю	i	28	\$	23	:
4,187 2,793 1,394 42	1,394		5		æ	94	88		8	æ	×	i	82	13	ю	
28,100 14,657 13,443 236	13,443		88		4 5	217	223		878	131	145	-	106	88	82	:
1,169 683 476 11	476		11		8	ដ	97		92	1	0		ដ	•	7	
6,813 4,173 2,640 72	2,640	_	22	-	- 81	8	116		8	3	_ #	-	116		22	7

Eaton	31,223	16,072	15,153	016	808	820	782	11	350	172	184		252	148	103	1
Emmet	6,630	8,544	3,095	19	184	99	88	-	2	44	35	***************************************	20	83	33	********
Genesee	39,220	20,042	19,178	320	663	316	347		607	208	105		254	108	146	
Gladwinf	1,127	749	878	7	12	9	20	1	10	10	4-	1	es.	-	-	
Grand Traverse *	8,422	4,608	3,814	69	127	99	19		70	36	34		22	30	27	
Gratiot	21,926	11,687	10,249	701	899	287	280	1	212	100	102	1	356	RI	178	
Hillsdale	32,723	18,544	16,179	346	194	221	240		372	208	164		68	133	92	
Houghton	22,473	12,242	10,231	196	765	391	874	-	243	131	112		523	560	262	
Huron	20,089	10,714	9,375	134	246	264	281	1	242	116	125	1	304	148	156	
Ingham	33,676	17,399	16,277	165	629	676	979	1	805	147	150	1	231	102	129	
Ionia	33,872	17,974	15,898	298	615	330	284	1	300	154	145	1	315	176	139	
Iosco	6,873	4,097	2,776	110	198	86	100	-	174	06	84		77	00	16	
Isabella	12,159	6,603	5,557	66	374	173	201	-	176	16	85		198	85	116	
Isle Royal	55	31	24	***************************************		-	-	-	***************************************		-	-			***************************************	
Jackson	42,031	21,833	861,02	127	816	413	101	-	407	222	182	-	409	187	222	***************************************
Kalamazoo	34,342	17,343	16,999	276	292	306	529	1	437	122	216		128	8	43	
Kalkaskah	2,937	1,617	1,320	31	88	94	63	-	38	20	18		20	98	22	
Kent	73,253	38,014	35,239	919	1,714	855	857	69	1,092	549	472	1	695	306	382	1
Keweenaw	4,270	2,396	1,874	31	308	175	132	1	122	19	51	7	186	108	81	9
Lake	3,233	1,941	1,292	21	83	39	11		87	8	10		35	10	8	
-					-	-	-	1	-				-		1	1

. The figures with the minus sign placed before them indicate the excess of deaths over births.

b No returns of deaths from the townships of Green and Ossincke. No returns of deaths from the township of St. Joseph.

d No returns of births from the townships of Evangeline, Eveline, and Melrose, and no returns of deaths from the townships of Eveline and Marion.

No returns of births nor deaths from the township of Detour.
 No returns of births nor deaths from the township of Grout.

s No returns of deaths from the townships of East Bay, Grant, and Paradise, a No returns of deaths from the townships of Garfield and Oliver,

VITAL STATISTICS OF MICHIGAN, 1881.

TABLE II.—CONTINUED.

	Popu	POPULATION, 1880.	880.			BIRTHS, 1881.	, 1881.			DEATH	DEATHS, 1881.		EXCRES	Excres of Births over Deaths.	SOVERD	EATHS.
COUNTIES.		S	SEX.	Marriages,			SEX.				SEX.				SEX	
	Total.	Males.	Females.	1381.	Total.	Males.	Fe- males.	Un- known.	Total.	Males.	Fe. males.	Un- known.	Total.	Males.	Fe- males.	Un- known.
Lapeer	30,138	15,827	14,311	249	83	291	257	61	99	154	121	-	778	137	108	
Leclanaw	6,253	3,388	2,865	97	147	11	76	-	8	8	23	-	19	23	81	7
Lenawee	48,343	24,281	24,062	200	707	355	320	61	415	216	198	-	862	83	152	-
Livingston	92,251	11,620	10,631	166	83	526	203	*******	82	137	123		89	88	8	
Mackinacb	2,902	1,689	1,213	88	8	13	17	-	2	91	0.		9	69	∞	
Macomb	31,627	16,157	15,470	1175	8	309	298	1	200	187	118	i	308	221	88	-
Manistee	12,532	696'9	5,563	113	Ş	221	182	01	181	90	81		723	121	101	67
Manitou	1,334	. 718	616	9	2	80	11	-	ю	_	•		71	1	1	
Marquette	25,394	14,760	10,634	202	810	415	383	12	907	823	156	13	70	171	722	
Masond	10,065	5,659	4,406	101	ឌី	1111	123		187	83	91		28	18	엻	
Mecosta	13,973	7,696	6,347	143	ž	153	140	1	188	163	751		*7	-10	9	1
Menoninee	11,987	8,000	3,987	158	347	176	171	***************************************	25	8	2	-	197	8	117	7
Milland	6,893	3,780	3,113	69	163	88	23	1	88	97	88	-	86	31	3	
Missaukee	1,553	576	611	00	19	30	30	1	51	21	11	-	2	31	2	
Monroe	33,624	17,250	16,374	345	731	387	344		346	170	175	-	388	217	200	7
Montcalm	33,148	18,321	14,827	236	994	263	202	1	88	223	173	F	2	\$	8	
Montmorency		-		-	•	9	02		ю	**	•		**	64	-	
Mnskegon	26,586	14,784	11,802	324	713	375	337	1	463	345	214	**	281	윩	831	م
Newaygo	14,688	8,376	6,312	112	272	133	122		291	8	8		8	\$	\$:
Oakland	41,537	21,327	20,210	307	513	0.7	231	64	8	213	174	*	123	\$	22	7
Occana	11,009	6,144	5,255	16	97	951	111		98	22	88	_	72	3	88	

							D		un,	-		111	AG	EO,		111	, 1	EA
-							-	-	1		-1	-			-		7	1
	10	26	67	20	193	. 20	6	818	190	Ci.	99	243	88	103	80	105	1,148	36
n	6	96	7	64	174	98	27	243	200		151	244	28	136	113	109	1,125	82
14	88	102	67	27	367	*99	21	261	391	64	916	4.88	170	539	202	214	2,279	65
		-		1	+	1	-		1		4	9	-	-	-		61	-
12	*	99	9	=	175	16	+	400	152	0	131	550	112	101	151	182	992	88
13	15	19	20	12	241	87	90	292	140	6	110	238	120	111	158	923	1,932	335
22	10	127	п	23	450	88	12	957	865	14	254	464	232	344	310	405	2,229	73
1	-	-	-		+	-			1		63	+	-	-	1	-	-	-
14	23	122	*	16	368	99	13	718	342	-	101	463	197	970	510	287	2,143	7.4
24	24	157	*	35	416	99	20	800	346	6	270	482	205	313	172	333	2,357	63
39	47	279	90	20	787	124	88	1,518	689	16	074	526	405	583	515	619	4,501	138
10	15	125	60	06	317	33	13	570	125	9	306	369	364	199	249	355	1,555	1.0
146	1,230	4,763	176	. 837	15,654	1,412	363	27,292	12,318	87.8	12,811	22,275	13,110	12,094	15,050	20,598	83,527	2,912
1,168	1,335	6,015	291	1,137	17,479	1,701	1,096	31,803	14,023	1,097	14,248	23,922	13,516	13,644	15,757	21,250	716,28	3,903
1,914	2,565	10,777	467	1,974	33,126	3,113	1,459	59,095	26,341	1,575	27,059	46,197	969'96	- 25,738	30,807	41,848	186,444	6,815
Ogemawh	Ontonagon	Osceola	Oscoda	Otsego	Ottawa	Presque Isle	Roscommon	Saginaw	Sanilac	Schooleraftk	Shlawassee	St. Olair	St. Joseph	Tuscola	Van Buren	Washtenaw	Wayne	Wexford

The figures with the minus sign placed before them indicate the excess of deaths over births.

No returns of births nor deaths from the township of Hendricks.

No returns of births nor deaths from the township of Cluster.

No returns of births nor deaths from the township of Grant.

No returns of births nor deaths from the township of Grant.

No returns of births nor deaths from the township of Grant.

No returns of births nor deaths from the township of Grant.

No returns of births nor deaths from the township of Chant.

No returns of births nor deaths from the townships of Chant.

No returns of births nor deaths from the townships of Chant.

No returns of births nor deaths from the townships of Charlingston.

No returns of births nor deaths from the townships of Charlingston.

No returns of births nor deaths from the townships of Henderson and South Brinch.

No returns of births nor deaths from the townships of Henderson and South Brinch.

No returns of births nor deaths from the townships of Henderson and South Brinch.

No returns of births nor deaths from the townships of Henderson and South Brinch.

No returns of births nor deaths from the townships of Henderson and South Brinch.

The number of births and deaths that were returned to the State Department, as having occurred out of Michigan, may be seen in Exhibit E. The births, as compared with those of 1880, are less by 111, while the deaths are more by 57 than those reported in 1880. The large majority of these births and deaths are undoubtedly from families which moved into the State after the births and deaths occurred and were taken by the supervisors in their enumeration.

EXHIBIT E.—Showing, for the State and Counties of Michigan, the Number of Births and Deaths returned to this Department as having occurred out of Michigan during the year 1881 (Presumably in Families Residing in Michigan).

	18	81.	COUNTIES	18	81.
STATE AND COUNTIES.	Births.	Deaths.	COUNTIES.	Births.	Deaths.
STATE	375	129	Lapeer	4	8.
Allegan	17	3	Leelanaw	1	
Alpena	1		Lenawee	12	4
Antrim	6		Livingston		, ,
Barry	5	1	Macomb	1	
Bay	10	8	Manistee	1	
Benzie		1	Marquette	15	6
Berrien	10	1.	Mason	6	1
Branch	2	5	Mecostu	6	1
Calhoun	4	3	Midland	1	
Cass	5	2	Missaukee		1
Charlevoix	6		Monroe		7
Cheboygan	1		Montcalm	3	2
Clinton	2	İ	Muskegon	15	4
Eaton	5	2	Newaygo	1	
Genesee	8	3	Oakland	2	2
Grand Traverse	2		Oceana	4	
Gratiot	1		Ogemaw	1	
Houghton	5		Osceola	. 10	2
Huron	3	2	Ottawa	9	8.
Ingham	3	2	Presque Isle	1	
Ionia	5	6	Sanilac	ا و	6.
Iosco	8	1	Shiawassee	3	
Isabelia	5	2	St. Clair	8	6.
Jackson	12	3	St. Joseph	3	5
Kalamazoo		1	Van Buren	5	3.
Kalkaska	1	_	Washtenaw	7	2
Kent	11	9	Wayne	103	19
Keweenaw	1		Wexford	3	
Lake	3	1		-	
		- 1	l	- 1	

BIRTHS, 1881.

According to the returns made to the State Department by the county clerks, the number of children born in the State of Michigan during the year 1881, was 34,749. This is 574 less than the number recorded for 1880, and 413 less than the number recorded for 1878. With these two exceptions the number is larger than was returned for any of the previous years. This number does not represent accurately the births which occurred in the State during the year, because of the defective system of registration which admits of many evasions and errors. For example, the birth-returns are obtained by the supervisors in a house to house visitation, made annually, and many months after the births occur; thus the omissions and discrepancies probable from such methods hardly need be mentioned. In order to offset this deficiency and obtain as nearly as possible the actual number of births, a system of correction has been adopted in previous reports, and the same plan has been used in this volume. This method of correction will be found fully explained in previous reports.

YEARS.	Per Cent. of Births Returned.	Per Cent. of Births Added as Correction for Omissions.
1872	64.95	43.95
1878	76.79	80.84
1874	55,75	79.87
1875	68,61	45,76
1876	75.73	32.04
1877	66.47	50,44
1878	67.41	48.34
1879	68.05	46,91
1890	69.73	43.42
1881	69.76	43.85
Average for 10 years.	68,32	46.39

The number of births added to make up the deficiency in the returns is 15,051, which is 43.35 per cent. of the number (34,749) actually returned. It is seen then that the number of births returned, excluding those in unknown

TABLE II.—CONTINUED.

	Port	POPULATION, 1880.	380.			BIRTHS, 1881.	, 1881.			DEATH	DEATHS, 1881.		EXCESS	EXCRESS OF BIRTHS OVER DEATHS.	SOVER I	EATES.
COUNTIES.		S	SEX.	Marriages,			SEX.				SEX.	+1			SEX.	
	Total.	Males.	Females.	1881.	Total.	Males.	Fe- males.	Un- known.	Total.	Males.	Fe- males.	Un- known.	Total.	Males.	Fe- males.	Un- known
Lapeor	30,138	15,827	14,311	249	550	291	257	69	300	154	151	1	244	187	106	
Leclanaw	6,253	3,388	2,865	46	147	12	76	1	96	26	33	-	51	15	55	3
Lenawee	48,343	24,281	24,062	909	707	322	350	61	415	216	198	-	292	139	152	-
Livingston	22,251	11,620	10,631	166	428	226	202	-	259	137	122		169	8	80	
Mackinacb	2,902	1,680	1,213	88	65	13	17	-	13	10	6	-	10	64	80	
Macomb	31,627	16,157	15,470	241	809	209	208	1	305	187	118	-	303	122	180	-
Manistee	12,532	6,969	5,563	113	405	221	182	69	181	100	81		224	121	101	61
Manitou	1,334	718	919	9	19	8	п	-	0	-	7		14	1	7	********
Marquette	25,394	14,760	10,634	202	810	415	383	12	406	238	156	13	404	17.1	722	
Mason	10,065	5,659	4,406	101	234	111	123	-	184	93	16	-	20	18	35	
Mecosta	13,973	7,626	6,347	143	294	153	140	1	207	163	134	-	2	-10	9	
Menominee	11,987	8,000	3,987	158	347	176	171	***************************************	120	98	24	7	101	18	117	7
Midland	6,893	3,780	3,113	29	163	83	62	1	83	97	36	1	80	37	43	-
Missaukee	1,553	943	119	80	19	30	30	1	15	15	=		34	15	139	
Monroe	33,624	17,250	16,374	345	731	387	344		346	170	175	-	385	217	169	7
Montealm	33,148	18,321	14,827	236	997	263	202	1	396	223	172	7	20	40	30	-
Montmorency				1	80	9	69		20	60	61		63	01	1	1
Muskegon	26,586	14,784	11,802	324	713	375	337	1	469	245	214	80	251	130	123	7
Newaygof	14,688	8,376	6,312	113	245	123	122		165	83	8		80	40	40	
Oakland	41,537	21,327	20,210	307	513	0-6	231	01	390	213	174	00	123	29	22	7
Oceana	11,609	0,444	5,235	16	940	196	111		166	10	88		ï	9	28	

Ogemawh	1,914	1,168	746	11	30	24	11	11	25	13	13		14	===		1
Ontonagon	2,565	1,335	1,230	15	47	15	23		10	35	*		88	0	19	
Osceola	10,777	6,015	4,763	125	979	157	123	-	127	19	99	-	152	96	99	
Oscoda	467	291	176	60	80	*	*		п	9	9		65	7	07	
Otsogo	1,974	1,137	- 837	05	99	3.5	16	-	23	13	11	-	27	83	10	
Ottawa	33,126	17,472	15,654	317	787	415	368	7	430	241	175	*	367	174	103	
Presque Isle	3,113	1,701	1,412	53	124	89	99	-	88	81	16		-92	36	. 20	
Roscommon	1,459	1,096	363	13	33	20	13		12	90	+		12	12	6	
Saginaw	59,095	31,803	27,292	570	1,518	800	718		957	292	400		261	243	818	
Sanifac	26,341	14,023	12,318	125	689	346	343	7	808	146	152	-	391	500	190	1
Schooleraftk	1,575	1,097	478	9	16	6	1-		11	6	2	-	64		61	
Shinwassee	27,009	14,248	12,811	206	470	970	161	60	254	119	131	4	216	151	99	-1
St. Clair	46,197	23,922	22,275	369	952	482	463	-	797	8238	550	9	438	244	243	1
St. Joseph	26,626	13,516	13,110	364	405	202	161		232	120	112		170	85	88	
Tuscola	- 25,738	13,644	12,094	199	583	313	270	-	344	111	167	******	539	136	103	
Van Buren	30,807	15,757	15,050	240	513	271	240	1	310	158	151	1	202	113	68	
Washtenaw	41,848	21,250	20,598	8555	619	333	287		405	555	183		214	109	105	
Wayne	186,444	716,28	83,527	1,555	4,501	2,357	2,143	-	655'5	1,232	995	C4	2,272	1,125	1,148	7
Wexford1	6,815	3,903	2,919	19	138	63	7.4	1	22	335	88		33	88	36	1
					-		1						1	1	1	1

The figures with the minus sign placed before them indicate the excess of deaths over births.

No returns of births nor deaths from the township of Hendricks.

No returns of births nor deaths from the township of Grystal Falls, Iron River, and Richmond, and no returns of deaths from the township of Grant.

No returns of births norderable from the township of Grant.

No returns of births norderable from the township of Grant.

No returns of births norderable from the township of Grant.

No returns of births norderable from the township of Oneon and West Branch, and no returns of deaths from the townships of Capp I ake and Rockland.

No returns of births norderable from the townships of Capp I ake and Rockland.

No returns of births norderable from the townships of Muniching and Thompson.

No returns of births norderable from the townships of Henderson and South Branch.

No returns of births norderable from the townships of Henderson and South Branch.

No returns of births norderable from the townships of Henderson and South Branch.

No returns of births norderable from the townships of Henderson and South Branch.

No returns of births norderable from the townships of Henderson and South Branch.

	Per Ct. of Total.	100.00	9.53	93.	9.15	8.88	8.71	8.31	8.21	8.16	8.07	7.80	1.8	6.80	8	8
1881.	Num- ber.	84,749	8,818	3,804	8,179	3,078	8,027	2,887	2,854	3,835	2,806	2,719	2,432	2,383	8	2,886
	Months.	Total	Aug	30pt	Dec	0et	July	May	Nov	Mar	April	June	Feb	Jan	Unk	Αν
	Per Ct. of Total.	100.00	9.30	9.88	83.6	88.88	8.60	8.52	8.15	8.07	1.99	38.	7.11	6.67	9.	88
1880.	Num- ber.	85,328	3,285	8,278	8,278	3,173	3,068	8,011	3,880	2,850	2,824	2,773	2,513	2,355	*	2,944
	Months.	rotal	Aug	3ept	Dec	Det	Nov	July	Мау	Mar	April	June	reb	Jan	Juk	ΔV
		100,00	9.47	5.31	98.6	8.80	8.84	8,	8.1	8.08	7.93	2.7	7.12	88	8	88.98
1879.	Num- ber.	34,122	8,233	8,198	3,149	3,036	8,018	2,842	2,766	2,758	2,706	2,626	2,429	2,331	8	2,844
	Months.	Total	Dec	Aug	3ept	Oct	July	Мау	Nov	Mar	April	June	Jan	Feb	Jnk	Δν
	Per Ct. of Total.	100.00	9.73	9.37	83.89	9.27	8.71	888	8.07	8.08	86.7	7.85	6.87	6.38	8	88.88
1878.	Num- ber.	35, 162	3,423	3,296	3,266	8,380	8,061	2,937	2,836	2,835	2,806	2,797	2,414	2,201	æ	2,930
	Months.	rotal	Dec	A 118	Oct	Sopt	Nov	April	Mar	July	Мау	June	Fob	Jan	σ nk.	Αν
		100.00	89.	9.43	9, 13	80.6 E	8.68	8.63	808	8.03	7.96	7.85	6.73	8.03	25.	8.83
1877.	Num- ber,	33,306	3,227	3,145	8,048	8,015	2,899	2,847	2,690	2,683	2,657	2,655	2,246	9,219	1	2,783
	Months.	rotal	Aug	Dec	Sept	Det	July	Nov	Mar	Мау	June	April	Fob	Jan	Jnk	4ν
	Per Ct. of Total.	100.00	9.36	9.13	80.6	88.8	8.80	8.53	8.38	8.01	8.00	7.97	6.87	6.67	8.	88
1876.	Num- ber.	34,235	3,205	3,124	3,110	3,030	3,014	2,921	2,870	2,744	2,730	2,730	2,359	2,288	104	2,853
	Months.	Total	Dec	Aug	Sept	Jct	July	Nov	Мау	War	June	April	de	Jan	Jnk	Δν
<u>'</u>		ORDE		67	es	-	3		_	- <u></u>	<u>-</u> 6	<u>`</u>	=			<u> </u>
	1877. 1878. 1879.	1876. 1877. 1878. 1879. 1880. 1880.	Months. Nam. Orf. Total. 34,235 100.00 Total. 38,306 100.00 Total. 36,102 Total. 38,102 Total.	Months. Num. Per Ct. Months. Der. Total. St. St.	Months. Num. of tal Per Ct. of tal Months. of tal Months	Months. ber. Total. 3,235 9,38 Aug 3,124 9,18 Dec 3,124 9,18 0.00 Total. 3,124 9,18 0.00 Total. 3,184 0.00 Total. 3,189 0.00 Total.	Months. Num. of Lotal. Num. of Lotal. Num. of Lotal. Months. ber. Total. Num. of Lotal. Num. of Lotal. Months. ber. Total. Num. of Lotal. Months. ber. Total. Num. of Lotal. Num. of Lotal.	Months. Num. of Lotal. Num. of Lotal. Months. ber. Total. Num. of Lotal. Months. ber. Num. of Lotal. Num. of Lotal.	Months. Num. of Lotal Num.	Montha. Num. of Lotal Per Ct. montha. Montha. ber. Total Num. of Lotal Per Ct. montha. ber. Total Montha. ber. Total Num. of Lotal Num. of Lotal	Months. Per Ct. Per Ct. Months. Per Ct. Per Ct. <t< td=""><td>Mouthata, Num. Per Ct. Total. Mouthata, Det. Mouthat</td><td>Monthala Num. Der CL. Total. Monthala Monthala Monthala Num. Der CL. Total. Monthala</td><td> Num. Per Ct. Montha Num. Per Ct. Montha Der. Total. Si,295 100.00 Total. Si,295 100.00 Total. Si,395 100.00 Total. Si,395 100.00 Total. Si,395 100.00 Total. Si,395 Si,39</td><td> Nonthalland Naumarina Per Cit Monthalland Naumarina Na</td><td> Montha Num. Per Cl. Montha Per Cl. Per Cl</td></t<>	Mouthata, Num. Per Ct. Total. Mouthata, Det. Mouthat	Monthala Num. Der CL. Total. Monthala Monthala Monthala Num. Der CL. Total. Monthala	Num. Per Ct. Montha Num. Per Ct. Montha Der. Total. Si,295 100.00 Total. Si,295 100.00 Total. Si,395 100.00 Total. Si,395 100.00 Total. Si,395 100.00 Total. Si,395 Si,39	Nonthalland Naumarina Per Cit Monthalland Naumarina Na	Montha Num. Per Cl. Montha Per Cl. Per Cl

. Including unknown month.

Exhibit 2 is similar in construction to Table II. and shows the order of the months when the births are corrected for omissions in the enumeration. It will be noticed that the order of the months is not the same as in Table II.

EXHIBIT 2.—Births during the Years 1878 to 1881, inclusive, as Corrected for Omissions in the Enumeration, exhibiting the Number and Per Cent. of Total, by Months arranged in order by Number, Months having the greatest number first.

		1878.		:	1879.			1880.		1	1681.	
	Montes.	Num- ber.	Per Ct. of Total.	MONTHS.	Num- ber.	Per Ct. of Total.	Монтна.	Num- ber.	Per Ct. of Total.	Мохтив.	Num- ber.	PerCt of Total
OKDKE.	Total	52,145	100.00	Total	50, 180	100.00	Total	50,648	100.00	Total	49,900	100.00
1	April	4,759	9.18	Mar	4,580	9.04	Mar	4,549	8.98	Aug	4,575	9.19
2	March	4,730	9.07	Aug	4,519	9.01	Aug	4,548	8.97	Mar.,	4,514	9.06
3	Aug	4,710	9.08	Мау	4,407	8.79	Sept	4,894	8.66	Мау	4,858	8.74
4	Sept	4,504	8.64	July	4,408	8.78	April	4,387	8.66	April	4,348	8.78
5	May	4,411	8,46	Apr	4,821	8,62	May	4,351	8,59	July	4,308	8.65
6	Oct	4,857	8,86	Sept	4,805	8,59	July	4,292	8.48	Sept.	4,289	8.61
7	June	4,265	8.18	Jan	4,918	8.40	Feb	4,118	8.13	Jan	4,018	8.06
8	Dec	4,240	8.18	Oct	4,011	8,00	Oct	4,118	8.18	Oct	3,990	8,01
9	July	4,188	8.08	Dec	8,975	7.93	June	4,070	8.04	Feb	8,975	7.98
10	Feb	4,181	7.92	June	8,952	7.88	Dec	8,975	7.83	June	8,974	7.98
11	Nov	8,987	7.55	Feb	8,936	7.85	Jan	8,969	7.82	Dec	8,852	7.74
12	Jan	8,881	7.44	Nov	3,528	7.04	Nov	8,851	7.60	Nov	3,579	7.19
	Unk	82	.06	Unk	30	.08	Unk	86	.07	Unk	80	.06
	Aver'ge .	4,845	8.83	Aver'ge =	4,178	8.33	Aver'ge.	4,220	8.88	Aver'ge .	4,150	8.33

⁴ Including births in unknown month.

The following Exhibits, A, B, C, D, and 3 illustrate the manner of making the corrections in the number of births returned so as to equal the number which probably occurred. Remarks on this system of correction will be found in previous reports.

Birthe of Dangles in Michigan Aming the Vene 1891 RYTIPIN O

						2	Моктив, 1881.	8, 1881					
H	TOTAL.	Jan.	Feb.	Mar.	Apr.	May.	May. June. July. Aug.	July.	Aug.	Sept. Oct.		Nov.	Dec.
Births of Females as returned by Registration Officers. Per cent. of Births to be added for correction for time clapsing before enumeration.	a 16,734	1,128	1,179	1,376	1,301	1,413	1,206	1,447	1,625	1,568	1,451	1,4 01,4 01,4 01,4 01,4 01,4 01,4 01,4 0	1,540
Mumber of births to be added for a bove correction	6,836	121	707	077	676	879	920	873	8	8	90	88	307
Births of Fomales, if onumerated in months of occurrence	23,570	1,849	88,	2,146	1,977	2,001	1,866	2,035	2,300	2,060	1,857	1,748	1,847
Per cent. of births to be added to equalize them to population at close of	İ	123	88	3.51	2 18	2.81	2,48	2.1	1.78	13	8	E	%
Births to be added to equalize them to population at close of year	243	8	73	25	밁	8	\$	83	æ	8	84	13	99
Births of Females, as corrected, equalized to population at close of year.	24,112	1,927	1,959	2,221	2,039	2,130	1,9.2	2,008	8,248	2,098	1,877	1,760	1,853
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length. Number of births added or subtracted to equalize them to months of uniform length.	12+	56 +2.44 -36 +171	•	28, 24	÷ ÷ ÷	38, 88	+ +	35 57	99. 1	# * * * * *	8 8	1 2 8	1 1 2 1 2 2 2 2 2 2
Births of Females, corrected and equalized, equalized to months of uniform length	24,139	1,892	2,130	2,181	2,060	2,111 1,940		180,4	2,907	81.	1,843	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,920

* Excluding 13 births in unknown month.

EXHIBIT D.—Births of Males and of Foundles in Michigan during the Year 1881, Corrected for Omissions in the Enumer-

						Ĭ	MTHS	Момтив, 1881.					1
	TOTAL	Jan.	Feb.	lar.	Mar. April, May. June. July.	7	nue	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Births of Males, if enumerated in months of occurrence. Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length. Number of births added or subtracted to equalize them to months of uniform length.	28,042 +	2,153 2,070 56 + 2.44 -39 + 180		82,2 95	2,365 + . 44 + .35	12.00	2,007 +.4. +31	26. 1 28. 1	2,331 "2,207 56 +.44 -42 +32	+.44 +.44 +.32	81. 82. 1. 83. 83.	1,816	1,980
Births of Males, corrected and equalized to months of uniform longth	26,067	2,114	1,860	2,312	2,400	98,80	2,188	81	98	82.	2,087	1,843	1,963
Births of Femalcs, if enumerated in months of occurrence. Lays and undredths by which the months should be increased or diminished to equalize them to months of uniform length. Number of births added or subtracted to equalize them to months of uniform length.	b 25,670 1,849 1,886 	1,849 1,886 -36 + 2.44 -33 + 164		9,146	1,977	2,091 96	1,886 + + + 27 + + 27	2,02	2, 26 82, 1 82, 1	2,069	1,837	1,748	1,847
Births of Females, corrected and equalized to months of uniform length Births of Males, corrected and equalized to months of uniform length	1 28,582	1,816 2,	2,050 2	2,107 2,006	2,006	2,063	1,833	1,988	85.9	2,099	1,823	1,774	1,814
Births of Malos and of Females, corrected and equalized to months of uni-	49,669	3,930	4,300 4,419	1 84	4,406 4,259		8	4,021 4,214 4,478	4,478	888,4	8,910	8,617	8,7117
Males to 100 Females, Births corrected and equalized to months of uniform longth	<u> </u>	91	<u> </u>	<u> </u>	8	101	=	112	<u> </u>	ğ	=	ğ	108
* Excluding 16 births in unknown month. b Excluding 13 births in unknown month	s in unkr	IOWD III	onth.										

workers of a unity of mengin of 30.24 Days each. (Sinte-otions and Chiaren in unknown Bet included.)	11110)	-0176	20 00	2	rene	3,	ווערווו	1016	72	כנותמי	· ·		
						W	MONTHS, 1881.	, 1881.					
	TOTAL.	Jan.	Feb.	Mar.	Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. Dec.	May.	Tune.	July.	Aug.	Sept.	Oct.	Nov.	Dee.
rths, if enumerated in months of occurrence 4,013 8,975 4,514 4,348 4,338 8,974 4,508 4,575 4,599 8,579	49,770	4,013	8,975	4,514	4,348	4,333	3,974	4,308	4,575	683,1	3,990	8,579	3,852
reand hundretths by which the months should be increased or dimin- bet to equalize them to months of uniform length sher of births added or subtracted to equalize them to months of uni- ran length +47	13+	66 +2.4455 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656 +445656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656565656	+ 2,41	\$6. 8 8. 8	÷ + + 8+	8 8	1 3 85 +	8 22	1 25 28	÷ ÷	8 2	+ .4	°0'
ibs, corrected and equalized to months of uniform length	19,817	49,917 3,941 4,321 4,432 4,412 4,032 4,320 4,492 4,332 3,918 3,631 3,792	4,321	4,432	4,419	¥15,	4 ,032	4,230	4,492	4,352	8,918	8,631	3,782

· Excluding 30 births in unknown month.

note that with only four exceptions there were more than the average number of marriages solemnized in those months that a majority of the conceptions occur in the months beginning with October and ending with March. During that The subject of the relation of the marriages to the births may be studied in Table III. and Exhibit E. It is interesting which more than the average number of conceptions occurred. Another fact relating to this subject may be noted here, period of the year, in certain classes, the families are more united than in the other months and this may account for much of the difference.

TABLE III.—Exhibiting the Relation between the Births Returned as having occurred in Michigan during the Year 1881, and the Marriages solemnized in the Months of the Years 1880 and 1881, in which the Conceptions probably occurred. (Births and Marriages in unknown month excluded.)

	80.44 DAYS BACH, 11	ORDER E	RED IN 1881, EQUALIZED TO MON Y NUMBER, GREATEST FIRST.		Number of Marriages from April, 1880, to Marci	
Births.a			Conceptions.		1881, equal- ized to Months of	
	Year and Months.	Number.	Months.	Year.	30.44 days cach.b	
Year		84,780			14,746	
More than the Av. No. of Births.	August	3,254	November	1880	1,612	
	September	3,251	December	1880	1,521	
	December	3,122	March	1881	1,184	
	October	3,028	January	1881	1,141	
	July	2,978	October	1880	1,433	
	November	2,896	Februaryc	1881	1,151	
Average		2,894			1,229	
Less than the Av. No. of Births.	April	2,846	July	1880	1,112	
	Мау	2,835	August	1880	1,087	
	March	2,784	June	1880	1,083	
	June	2,752	September	1880	1,393	
	February	2,644	May	1880	1,020	
	January	2,850	April	1880	1,159	

Excluding 30 births in unknown month, and including 11 gained in equalizing, making the number shown for the year 19 less than the number of births returned.

• Corrected up to February 8, 1883.

• Exceptions to the statement that more than the average number of conceptions appear for months in which more than the average number of marriages were solemnized, and less than the average number of conceptions in months in which less than the average number of marriages were solemnized.

MI 3.—Births in Michigan during the Year 1881, Corrected for Omissions in Enumeraling and Equalited for Months of a uniform length of 30.44 Days each. (Still-births and Children of unknown Nex included.)

						Mo	MONTHS, 1881.	186			i		
	10TAL.	Jen.	eb. 3	dar.	Jan. Feb. Mar. April. May. June, July. Aug. Sept. Oct. Nov. Dee.	lay.	ine.	uly.	Aug.	sept.	Oct.	Nor.	Dee.
Births, ifenumerated in months of occurrence	49,770	£,013	1,975	15,	878'7	33,	71.6	905'1	4,573	8,	3,990	8,678	3,832
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length. Number of births added or subtracted to equalize them to months of uniform length.	7	2 7	13.8	\$ %		35 E	= 2	3 5	<u> </u>	÷ +	3 7	+ 50 +	1 2 P
Births, corrected and equalized to months of uniform length	4,517 3,944 4,921 4,422 4,412 4,773 4,370 4,482 4,337 3,916 8,631 8,788	3,941	Į į	23,	4,419	1 4 4	ğ	81	4,492	1,35	S,018	8,631	3,788

• Excluding 30 births in unknown month.

in which more than the average number of conceptions occurred. Another fact relating to this subject may be noted here, that a majority of the conceptions occur in the months beginning with October and ending with March. During that period of the year, in certain classes, the families are more united than in the other months and this may account for much The subject of the relation of the marriages to the births may be studied in Table III. and Exhibit E. It is interreting to note that with only four exceptions there were more than the average number of marriages solemnized in those months of the difference.

TABLE III.—Exhibiting the Relation between the Births Returned as having occurred in Michigan during the Year 1881, and the Marriages solemnized in the Months of the Years 1880 and 1881, in which the Conceptions probably occurred. (Births and Marriages in unknown month excluded.)

	Вівтня.		Conceptions.		1880, to Marci 1881, equal- ized to Months of
	Year and Months.	Number.	Months.	Year.	80.44 days cach.b
Yea	F	84,780			14,746
<u>ن</u>	August	8,254	November	1860	1,612
4 .	September	3,251	December	1880	1,521
Birth	December	3,122	March	1881	1,184
2 2	October	3,023	Januaryc	1881	1,141
Kore t	July	2,978	October	1880	1,433
Z .	November	2,896	Februaryc	1881	1,151
Δ1	verage	2,894			1,229
No.	April	2,846	July	1880	1,112
	Мау	2,835	August.	1880	1,037
then the of Births	March	2,784	June	1880	1,088
E E	June	2,752	September	1880	1,893
5	February	2,644	May	1890	1,020
5	January	2,350	April	1880	1,159

a Excluding 30 births in unknown month, and including 11 gained in equalizing, making the number shown for the year 19 less than the number of births returned.

• Corrected up to February 8, 1883.

• Exceptions to the statement that more than the average number of conceptions appear for months in which more than the average number of marriages were solemnized, and less than the average number of conceptions in months in which less than the average number of marriages were solemnized.

Exhibit E. is similar in plan to Table III. only in the former the births are corrected for omissions in the enumeration. In the exhibit there are five exceptions to the general proposition.

EXHIBIT E .- The Relation between the Births in Michigan during the Year 1881, Corrected for Omissions in Enumerating, and the Marriages solemnized in the Months of the Years 1880 and 1881, in which the Conceptions probably occurred. (Births and Marriages in unknown Month excluded.)

BIRT	THS IN 1881, CORRECTED AND EQUALIZED TO M	AS IF ENU: ONTHS OF MBER, GRE	MERATED IN MONTHS OF OCCUR UNIFORM LENGTH, IN ORDER B LATEST FIRST.	RENCE,	No. of Marriages from April 1890, to
	Births.		Conceptions.		March, 1881 equalized to Months or
	Year and Months.	Number.	Months.	Year.	80.44 Days each. b
Year	r	49,817			14,746
	August	4,492	November	1880	1,612
ا ند	March	4,482	June	1880	1,088
t be	April	4,412	July	1880	1,119
More than the Av. No. of Births.	September	4,352	December	1880	1,521
eth (o.o	February	4,821	Мау	1880	1,090
Mo	May	4,274	Auguste	1880	1,037
	July	4,230	October	1880	1,438
Λv	verage	4,151			1,929
÷ .	June	4,032	September	1880	1,393
Less than the Av. No. of Births.	January	3,941	April	1880	1,150
f Bit	October	3,918	January	1881	1,141
10 10 10	December	3,782	March	1881	1,134
i,	November	8,631	February	1881	1,151

a Unknown month excluded.
b Corrected, for additional returns, up to Feb. 8, 1883.
c Exceptions to the statement that more than the average number of conceptions appear for months in which more than the average number of marriages were solemnized, and less than the average number of conceptions in months in which less than the average number of marriages were solemnized.

TABLE IV.—Exhibiting, by Counties and by Sex, the Number of Children Returned as having been born in Michigan during the Year, and in each Month of the Year ending December 31, 1881. (Still-births included.)

							1	Mon'	rns,	1881.					
AND COUNTIES.	SEX.	YEAR, 1881,	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
1	Total	34,749	2393	2432	2835	2805	2887	2712	3027	3313	3204	3078	2854	3179	3
	Males	17,941	1262	1246	1456	1503	1469	1412	1573	1683	1631	1624	1436	1630	,
tate	Females	16,747	1128	1179	1376	1301	1413	1296	1447	1625	1568	1451	1410	1540	,
	Unknown	61	3	7	3	1	5	4	7	5	5	3	8	9	
	Total	42	1	3	1	-6	3	3	4	- 6	8	1	2	4	_
Icona	Males	15	1	1	1	2	1	1	2	2	- 3		1		
	Females	27		2		4	2	2	2	4	5	1	1	4	_
	Total	830	47	54	70	66	79	67	77	103	70	69	65	70	
Allegan	Males	427	31	27	38	34	29	33	41	52	32	36	37	37	
	Females	401	16	27	31	31	43	34	36	51	38	33	28	33	_
	Unknown	2			1	1									
	Total	226	10	16	13	19	25	25	15	17	15	14	26	31	
Alpena	Males	113	5	9	8	8	13	14	6	10	10	7	12	16	
	Females	113	5	7	16	11	12	11	9	7	5	7	14	15	
	[Total	140	14	10	14	13	14	10	14	9	14	7	9	12	
Antrim	Males	77	10	7	5	7	8	4	9	5	4	5	4	9	
	Females	63	4	3	9	6	6	6	- 5	4	10	2	5	3	
	[Total	55	1	3	6	7	7	5	6	9	2	6	7	3	
Baraga	Males	27	1	1	3	5	4	4	2		1	4	1	1	
	Females	28		2	3	2	3	1	4	2	1	2	6	2	100
	[Total	480	32	30	32	40	40	40	46	46	49	41	36	48	
Barry	Males	232	18	19	13	19	18	20	20	24	22	15	18	26	1
	Females	248	14	11	19	21	22	20	26	99	27	26	18	20	
	[Total	1,160	97	80	104	77	75	93	105	108	98	100	99	124	
Вау	Males	626	59	46	51	50	43	55	55	46	56	57	45	63	
	Females	534	38	34	53	27	82	38	50	62	42	43	54	61	
	[Total	108	8	1)	9	10	11	7	7	12	8	8	5	12	
Bensie	Males	50	4	2	5	7		4	2	8	6	4	3	5	
	Females		1	9	4	3	6	3	5	4	2	4	2	7	
	[Total	618	59	47	44	52	59	51	58	54	41	68	51	33	
Berrien	Males	1	20	27	26	27	36	27	33	27	22	85	29	16	
	Females		38	3 20	18	25	23	24	25	97	19	33	22	17	

[•] Except of counties and townships not represented by returns of births in 1881.

TABLE IV.—Continued.—Births by Counties, by Months, and by Sex.

							:	Mon	THS,	1881	۱.				
counties.	SEX.	YEAR, 1881.	January.	February.	March.	April.	May.	June.	July.	August.	Beptember.	October.	November.	December.	Unknown.
	Total	410	21	33	38	26	36	42	80	44	39	43	34	24	
Branch	Males	200	10	17	21	10	17	15	21	19	16	24	17	13	
	Females	210	11	16	17	16	19	27	9	25	23	19	17	11	 -
	Total	547	81	35	42	45	45	43	62	49	56	48	87	54	
Calhaum	Males	290	21	22	23	25	17	23	88	26	33	25	23	28	
Calhoun	Females	243	10	12	19	20	27	19	28	23	23	23	13	26	 -
	Unknown	5		1			1	1	1				1		ļ
1	Total	838	12	36	14	22	25	24	42	36	43	82	17	83	1
Cass	Males	159	3	13	7	12	10	13	26	21	21	13	1 .	13	1
	Females	179	9	23	7	11	15	31	16	15	22	19		20	
	Total	125	5	10	14	11	10	14	10	10	17	6	1	13	
Charlevoix	Males	61	2	2	8	4	7	4	7	5	10	8		9	 -
	Females	64	8	8	6	7	3	10	3	5	7	3	1	4	
	Total	192	12	11	21	14	24	17	15	18	1	21		12	
Cheboygan	Males	97	8	3	13	7	10	7	7	8	1	12		9	
	Females	95	4	8	8	7	14	10	8	10	6	9	l -	3	
	Total	65	5	8	6	6	2	4	7	5	6	6		2	 -
Chippewa	Males	30	1	5	2	5	••••	8	3	8	4	5	7	1	
	Females	26	4	3	4	1	2	1	4	2	2	1	1	1	
	Total	84	3	6	4	9	6	7	13	4	10	15	_	5	
Clare	Males	46	2	3	3	4	4	3	7	2	5	8		8	
	[Females	38	1	3	1	5	2	4	6	2 43	-	7		2	 -
	Total	442	25	24	34	31	84 16	37 19	39	23	49 24	39 18		4J 17	
Clinton	Males	217	14	34	18 16	16 15	22	18	18 21	20	25	21	20 22	24	
	Females	225 29	11	10 2	10	5	4	10	3	3	3	2	2	2	1
	Total	13		2	1	4	2		2	2		2	-	2	'
Crawford	Males	16		2		1	2	 1	1	1	3	1	2	2	
	(Females	199	16	13	20	24	15	20	18	14	23	9	13	14	'
Malta	Total	83	5	7	9	12	6	7	9	7	7	6	2	6	
Delta	Females	116	11	6	11	12	9	13	9	7	16	3	1 1	8	
	(Total	60s	38	43	53	57	42	42	 59	64	47	55	55	53	
	Males	320	19	24	28	32	20	2:3	26	30		34	24	33	
Eaton	Females	287	19	19	25	25	22	19	33		20	21	30	20	
	Unknown	1											1		
		<u> </u>													

TABLE IV.—Continued.—Births by Counties, by Months, and by Sex.

									THS,						
counties.	SEX.	YEAR, 1881.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	[Total	134	8	17	14	- 8	11	8	21	13	9	8	8	9	
Hmmet	Males	66	6	8	9	3	6	3	12	4	5	3	4	3	
	Females	68	2	9	5	5	5	5	9	9	4	5	4	6	
	[Total	663	49	53	53	56	54	59	66	59	73	40	39	62	
Genesee	_ Males	316	23	29	30	29	25	26	25	31	34	23	13	28	
	Females	347	26	24	23	27	29	33	41	28	39	17	26	34	
	{ Total	12		1	1	1	2	1	1		2	2		1	
	Males	6		1			1				2	1		1	
Gladwin	Females	. 5			1	1	-	1	1			1			
	Unknown	1				****	1								
	[Total	127	12	5	11	13	12	13	8	14	14	10	3	12	
Grand Traverse	. Males	66	5	3	5	7	9	5	6	5	7	5	1	8	
	Females	61	7	2	6	6	3	8	0	9	7	5	9	4	
	{ Total	568	25	27	45	45	47	46	54	57	55	59	48	60	
	Males	287	10	10	17	24	22	29	29	30	31	31	25	29	
Gratiot	Fomales	280	15	16	28	21	25	17	25	27	24	28	23	31	
	Unknown	1		1											
	[Total	461	24	36	19	35	54	-64	47	53	48	38	31	32	
Hillsdale	. Males	221	13	16	9	20	28	14	18	26	18	19	18	22	
	Females	240	11	20	10	15	26	30	29	27	30	17	13	10	-
•	(Total	765	47	65	57	49	64	60	65	59	79	71	74	75	
Houghton	Males	391	23	44	32	20	28	28	29	23	43	30	36	37	
	 Females	374	24	21	25	20	36	32	36	36	36	32	38	38	
	Total	516	46	35	37	55	59	43	87	44	41	62	44	43	
	Males	264	16	13	16	29	31	19	18	25	21	33	23	20	
Haron	Females	281	30	22	21	26	28	24	19	10	20	29	21	22	1
	Unknown	1												1	
	(Total	529	40	43	36	39	48	35	41	47	48	46	54	49	100
	Males	249	21	16	14	18	23	13	27	22	24	17	25	23	
ingham	Females	279	19	27	22	21	25	16	17	25	24	29	28	26	
	Unknown	1											1		
	(Total	615	27	33	50	47	62	55	52	57	67	54	44	57	
	Males	330	100	17	27	25	80	33	38	100	100	31	25	1.77	
Ionia	Females	284	1	16	23	22	32	21	24	31	1 60	23		25	
	Unknown	1	1					1							
	(Total	198	0.00	12	14	17	22	21	16	19	21	14	8	20	
[osco	Males	98		9	5	5	10	10	10	8	13	3	4	13	
	Females	100		3	9	12	12	11	6	11	8	11	4	7	

TABLE IV.—Continued.—Births by Counties, by Months, and by Sex.

	<u> </u>														
							1	rKOL	CHS,	1881.					
COUNTIES.	SEX.	YEAR, 1881.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
1	Total	874	16	29	47	98	43	83	22	83	83	81	87	22	
Isabella	Males	178	6	14	24	12	19	10	10	14	20	18	17	9	
	Females	201	10	15	23	16	24	28	12	19	18	18	20	18	
Isle Royala			 -										 		
!	Total	816	48	56	61	58	79	57	85	66	88	68	90	70	
Jackson	Males	412	24	24	81	84	33	32	86	85	45	41	46	20	
	Females	404	24	82	30	24	46	25	47	81	48	27	84	41	
!	Total	565	58	48	42	48	35	35	43	59	55	48	51	45	
Kalamazoo	Males	806	32	29	18	21	17	21	22	34	29	82	23	28	
	Females	259	24	19	24	27	18	14	21	25	26	16	28	17	
1	Total	88	5	6	8	4	11	11	7	9	7	5	10	5	
Kalkaska	Males	46	2	4	4	2	5	5	4	8	3	1	8	1	
	Females	42	8	2	4	2	6	6	3	1	5	4	2	4	
	Total	1,714	117	124	141	121	147	127	137	139	170	182	148	159	2
Kent	Males	855	58	58	76	57	76	65	67	75	82	100	68	73	
12000	Females	857	59	66	65	64	71	62	69	64	88	81	80	86	2
	Unknown	2			•				1			3			
	Total	308	85	20	21	28	30	27	34	26	24	18	21	24	
Keweenaw	Males	175	19	15	12	17	15	18	19	16	12	8	12	12	
AC W COLLEW V	Females	182	16	5	8	11	15	9	15	10	12	10	•	12	
i	Unknown	1			1										
	Total	83	4	5	9	2	8	4	6	8	15	8	7	10	
Lake	Males	39	2	3	5	2	8	1	5	5	8	1	4	5	
	Females	44	2	2	4		5	8	1	8	12	4	8	5	
	Total	550	84	49	44	46	44	44	85	72	54	36	30	62	
Lapeer	Males	291	20	25	24	26	25	24	18	41	28	16	15	34	
	Females	257	14	23	26	20	19	20	22	81	25	20	15	28	
	Unknown	2		1							1				
	Total	147	10	10	9	11	10	11	15	11	19	18	14	9	
Leelanaw	Males	71	5	3	4	5	6	6	7	6	7	11	7	4	
	Females	76	5	7	5	6	4	5	8	5	12	7	7	5	
!	Total	707	65	61	57	52	54	43	59	68	60	73	49	64	2
Lenawee	Males	355	37	31	29	23	26	20	29	25	35	36	25	33	1
2011411 00	Females	350	28	29	28	24	28	23	30	43	25	37	24	30	1
	Unknown	2		1										1	

[·] No returns from county clerk.

TABLE IV .- Continued .- Births by Counties, by Months, and by Sex.

							1	ION	гн8,	1981.					
COUNTIES.	SEX.	YEAR, 1881.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	(Total	428	30	31	36	81	33	30	33	36	44	43	43	82	
Livingston	Males	226	16	15	17	17	19	14	20	14	21	26	25	22	 -
	Females	202	14	16	19	14	14	16	19	22	23	17	18	10	 -
	[Total	29	2	5		3	4	5	2	2	1	2		8	ļ
Mackinac	Males	12		1		1	3	3	2	••••		1		1	
	Females	17	2	4		2	1	2		5	1	1		2	ļ
	[Total	608	38	45	55	55	34	40	57	67	55	65	50	47	ļ
Macomb	Males	309	18	17	27	28	19	20	28	24	27	42	27	22	
	Females	:98	19	28	28	27	15	20	29	33	28	23	23	25	ļ
	Unknown	1	1					 .				 -			ļ
	Total	405	23	30	40	36	39	24	36	80	85	36	39	37	
37	Males	221	11	19	18	21	23	11	21	17	21	19	22	16	
Manistee	Females	192	12	11	22	13	16	18	15	13	14	17	16	20	 -
	Unknown	2	·-										1	1	
	[Total	19	••		8	1	2	1		2		5	4	1	
Manitou	Males	8					2	1		1		2	1	1	
	Females	11			8	1				1		3	8		
	Total	810	47	52	77	62	65	67	69	81	75	74	55	81	
	Males	415	25	29	41	81	81	39	88	40	37	89	25	35	9
Marquette	Females	383	21	22	36	81	80	27	29	40	87	85	29	48	8
	Unknown	12	1	1			1	1	2	1	1	 	1	8	
	[Tota]	234	11	19	21	24	19	25	17	87	9	16	14	21	1
Mason	Males	111	6	5	10	15	8	12	9	12	6	11	6	11	ļ
	Females	123	5	14	11	9	11	13	8	25	3	5	8	10	1
	Total	294	20	26	19	17	81	25	31	26	26	24	22	27	 .
	Males	153	13	15	8	8	14	18	17	18	14	11	10	12	 -
Mecosta	Females	140	7	11	11	9	17	7	14	13	12	18	11	15	
	Unknown	1											1		ļ
	(Total	347	28	39	32	23	28	24	22	21	81	25	30	44	
Menominee	Males	176	11	16	18	12	16	13	13	10	16	17	15	24	 -
	Females	171	17	23	19	11	12	11	9	11	15	8	15	20	ļ
	[Total	1 163	8	9	18	17	24	18	17	13	7	11	6	15	 -
	Males	83	1	4	8	10	15	9	8	7	2	8	4	7	
Midland	Females	79	7	5	9	7	9	9	9	6	5	8	2	8	ļ
	1	1	I	1	1	1			1	1	I		1 1		l

TABLE IV.—Continued.—Births by Counties, by Months, and by Sex.

							1	Mon	гна,	1881	•				
COUNTIES.	SEX.	YEAR, 1881.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Thirmown
	[Total	61	5	4	4	8	3	5	6	2	7	4	8	5	
Hissaukee	Males	30	3	3	3	3		2	1	2	3	1	5	4	
	Females	30	2	1	1	5	3	3	5		4	3	2	1	
	Unknown	1									****		1		
	[Total	731	59	57	65	74	53	25	37	60	78	80	60	88	
Ionroe	Males	387	34	21	33	40	27	13	21	35	42	45	35	41	
	Females	344	25	36	32	34	26	12	16	25	31	35	25	47	
	(Total	466	32	36	35	38	37	34	36	51	49	37	38	43	1.
	Males	263	19	23	18	22	23	17	20	32	26	19	24	20	1-
fontcalm	Females	202	13	13	17	16	14	17	16	18	23	18	14	23	
	Unknown	1								1					
	Total	8			1			1	1		1	3	1		
Iontmorency	Males	5			1			1			1	2			1.
	Females	3							1			1	1		1.
	f Total	713	48	41	58	63	58	66	61	65	50	67	54	79	
_	Males	375	26	20	33	36	31	39	26	36	26	35	22	42	
Iuskegon	Females	337	22	21	25	27	27	27	35	29	24	32	32	36	١.
	Unknown	1												1	
	[Total	245	8	20	22	26	19	19	22	26	18	19	25	21	
ewaygo	 	123	4	12	11	17	6	9	15	13	12	8	10	6	
	 Females	122	4	8	11	9	13	10	7	13	6	11	15	15	
	(Total	513	27	28	52	33	47	40	44	55	42	41	54	46	П
	Males	280	13	18	29	21	26	19	21	31	22	23	31	23	1
akland	 Females	231	14	10	23	12	21	21	22	23	20	18	28	23	
	Unknown	2							1	1					
	[Total	240	11	13	22	16	28	28	23	28	20	18	16	17	1.
ceana	Males	126	8	8	11	7	16	17	16	11	7	9	7	9	
	Females	114	3	5	11	9	12	11	7	17	18	9	9	8	
	[Total	39	2	5	3	3	6	2	2	4		3	4	5	
	Males	24		2	2	2	3	2		3		2	3	5	
gemaw	Females	14	2	3	1	1	3		1	1		1	1		1.
	Unknown	1							1						1.
	(Total	47	1	2	3	7	7	1	7	4	3	2	2	8	
ntonagon	Males	24		1	1	2	5		4	1	2		1	4	1
_	Females	23		1	2	5	2		3	3	1		1	4	

TABLE IV .- CONTINUED .- Births by Counties, by Months, and by Sex.

							1	Mon	THS,	1881					
COUNTIES.	Sex.	YEAR, 1881.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	(Total	279	16	10	21	32	24	32	26	34	22	23	15	24	
Osceola	Males	157	8	6	8	25	12	20	12	20	11	14	9	12	
	Females	122	8	4	13	7	12	12	14	14	11	9	6	12	
	Total	8					1	2	3	1			1		
Oscoda	Males	4					1	1	1	1					
	Females	4						1	2				1		
	[Total	50	1	3	2	4	6	7	5	4	5	5	3	5	
Otsego	Males	34		1	2	3	4	5	4	4	3	3	2	3	
	Females	16	1	2		1	2	2	1		2	2	1	9	
	Total	787	68	51	64	71	60	47	54	92	75	66	65	73	
-	Males	415	85	27	23	41	35	23	29	43	38	38	37	35	
Ottawa	Females	368	33	22	31	30	23	24	25	49	37	28	28	38	
	Unknown	4		2			2								
	[Total	124	5	7	15	15	9	8	14	14	5	7	14	11	
Presque Isle	Males	58	3	5	5	8	4	3	6	8	2	3	5	6	
	Females	66	2	2	10	7	5	5	8	6	3	4	9	5	
	Total	33	7	2	5	1	1	5	2	2	3	2	2	1	
Roscommon	Males	20	3	2	3	1	1	4	2	1	1	1		1	
	Females	13	4		2	****		1		1	2	1	2		
	[Total	1,518	127	117	136	131	114	127	126	146	131	105	121	137	
Saginaw	Males	800	78	58	72	63	62	63	68	82	68	52	66	68	
	Females	718	49	59	64	68	52	64	58	64	63	53	55	69	
	Total	689	43	51	56	60	75	58	48	68	68	59	51	52	
	Males	346	21	28	30	28	45	29	27	34	29	25	24	26	
Sanilac	Females	342	22	23	26	32	30	29	21	34	39	33	27	26	
	Unknown	1										1			
	(Total	16	2		2	1	1	2	3	3	1	1			
Schoolcraft	Males	9	2		1		1	1	2	1	1				
	Females	7			. 1	1		1	1	2		1			***
	Total	470	31	33	23	30	39	33	47	56	47	59	36	36	
	Males	270	20	26	11	20	13	22	28	36	28	32	18	16	
Shiawassee	Females	197	10	7	12	10	26	10	19	20	18	27	18	20	
	Unknown	3	1					1			1				
	Total	952	58	70	84	70	68	92	77	99	89	86	72	87	
	Males	482	30	31	42	42	36	49	39	47	45	43	30	48	
st. Clair	Females	463	28	39	42	28	32	43	38	51	42	42	41	37	
	Unknown	7							1	1	2	1	1	2	1

TABLE IV.—CONTINUED.—Births by Counties, by Months, and by Sex.

							1	Mon'	THS,	1881					
COUNTIES.	SEX.	YEAR, 1881.	January.	February.	March.	April.	May.	Jane.	July.	August.	September.	October.	November.	December.	Unknown.
	(Total	402	27	24	22	37	47	27	35	41	35	38	33	36	
St. Joseph	Males	205	17	11	14	20	21	17	11	17	17	20	21	19	
	(Females	197	10	13	8	17	26	10	24	24	18	18	12	17	
	[Total	553	33	33	57	46	45	53	51	59	60	52	50	44	
Tuscola	Males	313	15	21	34	30	21	24	30	36	31	24	23	24	
	Females	270	18	12	23	16	24	29	21	23	29	28	27	20	
	[Total	512	32	87	50	89	37	26	50	48	44	42	56	39	1
	Males	271	22	17	29	20	19	24	22	23	24	22	23	24	1
Van Buren	Females	240	10	20	21	19	18	12	27	25	20	20	33	15	
	Unknown	1				2			1						
	[Total	619	46	87	40	52	56	47	44	49	76	61	51	60	
Washtenaw	Males	332	25	18	24	32	23	30	23	27	45	30	26	29	
	Females	287	21	19	16	20	33	17	21	22	31	31	25	31	
	[Total	4,501	373	279	371	365	308	319	393	411	391	409	419	462	1
Wayne	Males	2,357	188	141	191	187	171	168	226	202	195	211	217	259	1
Wayne	Females	2,143	185	138	180	178	137	151	167	208	196	198	202	203	
	Unknown	1								1					
	[Total	138	5	6	5	10	10	8	26	16	13	12	11	12	4
Wexford	Males	63	3	4	4	5	6	2	8	10	4	3	6	6	2
TAIUIA P	Females	74	2	2	1	5	4	6	18	6	9	9	5	6	1
	Unknown	1													1

Table V. furnishes important data concerning the birth-rate and the proportion of the sexes among the different races of people. This table would be more valuable if the statistics concerning the population were more complete. As it is, we are unable to give the population, represented by the returns of births, by males and females of each color. No distinction is made between the Black and the Mulatto in the Census, and for this reason they should be studied together. It appears from "Per Cent, of Children Born to Inhabitants," that the birth-rate was a little greater than the average for all races among the Whites, and less than the average among the Indians and Black and Mulatto. The proportion of males for the year 1881 was greatest among the African race, and the proportion of female children was greatest among the Mulatto when studied separately, but when studied with the Black the proportion of females is smaller than among the White or Indian races.

In Table VI. can be studied the birth-rate in the different counties of the State, based upon the births in 1881 and the population in 1880, according to the U.S. Census for that year. As in previous reports, four propositions are made concerning the influence of the increase or decrease of the birth-rate upon the sex of the children born, which are as follows: 1, greater than average birth-rate, more than average proportion of males; 2, greater than average birth-rate, less than average proportion of males; 3, less than average birth-rate, more than average proportion of males; 4, less than average birth-rate, more than average proportion of males. In two counties there is no statement, but of the 77 remaining counties, the first proposition is true of 15 counties, the second is true of 23 counties, the third is true of 19 counties, and the fourth is true of 20 counties. The supposition that a greater than average birth-rate is attended with less than an average proportion of male children, and vice versa is true for 43 out of 77 counties in 1881. The opposite supposition, therefore, is true of the remaining 34 counties.

Table VI. also shows, by counties, the number of children born among the White, Black, Mulatto, and Indian races. The number returned as unknown color was 64, the majority of which were returned from the counties of Eaton

and Kent.

TABLE V.—Exhibiting, by Color and by Sex, the Number of Inhabitants of Michigan June 1, 1880, the Number of Children returned as having been born in the State during the Year 1881, the Per Cent of Children born in 1881 to Inhabitants in 1880, the Per Cent. of Children of each Sex to the Iotal Number of both Sexes, and the Number of Inhabitants to each Child born of the Same Color. Still-births included.)

COLOR OR RACE,	SEX.	Population June 1, 1880, Repre- sented by Births in 1881,	Children Born in 1881.	Per Cent. of births of each Color to total of all Colors, by Sex.	Per Cent. of Children Born to Inhabitants.	Per Cent. of each Sex to Children of both Sexes.	Inhabitants to One Child Born, by Color and Sex.
	Total	a 1,629,655	34,749	100,00	2.13		46,90
	Males	857,968	17,941	100,00	2.09	51.72	47,82
All Colors	Females	771,687	16,747	100,00	2.17	48.28	46,08
	Unknown.	***********	61	100,00			
	Total	1,607,496	34,387	98,96	2.14		46,75
	Males		17,756	98,97		51.70	
White	Females		16,589	99.06		48,30	
	Unknown.		42	68,85			
	[Total		119	.34			
Black	Males		71	.40		59.66	
	Females	**********	48	,29		40.34	
	Total		84	.24	*********	*********	
Mulatto	Males		40	.22	********	47.62	
	Females		44	.96		32.38	
	Total	7,044	95	.97	1.35	********	74.15
Indian	Males	**********	-51	.28	**********	32,68	
	Females	*********	44	.95	********	46,32	
	Total		64	.18			
	Males		23	.13		51.11	
Unk. color	Females		22	.13		48,59	
	Unknown,		19	31.13	******	*******	
	Total	15,087	203	.38	1.35		74,32
Black and Mulatto	Males		111	.02		34.65	
14-6 4000-0-0-000	Females		92	.33	******	45.32	-

[.] Includes \$5 Asiatics.

TABLE VI.—Exhibiting for the State and Counties of Michigan, by Sex, the Population in 1880, the Per Cent. of Births in 1881 to Population in 1880, the Number of Males to 100 Females born during the Year 1881, and, by Sex and by Color, the Number of Children Born during the Year 1881. (Still-births included.)

-	Births.		Per Ct. of Births	Popula- tion in	Per Ct. of Births	Core	ок,-Сн	ILDRE	N BOR	n in 1	881.
STATE AND COUNTIES.	Males to 100 Females.	SEX. each resented Sex to by Pop Total Births tion of both in 1881. sa	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White,	Black,	Mu- latto.	In- dian.	Unk.		
		Total		1,629,655	2.13	34,749	34,387	6 119	84	e 95	64
and the same of		Males	51.72	857,968	2.09	17,941	17,756	71	40	51	25
State	107 -	Females -	48.28	771,687	2.17	16,747	16,589	48	44	44	25
-		Unknown				61	42				18
		Total		3,107	1.35	42	42				
Alcona	56	Males	35.71	1,945	.77	15	15				
		Females.	64.29	1,162	2.32	27	27				
		Total		37,815	2.19	830	828			2	
		Males	51.57	19,782	2.16	427	426			1	
Allegan 106	Females.	48.43	18,083	2.22	401	400			1		
	Unknown				2	2					
	1	Total		8,789	2.57	226	224	2			
Alpena	100	Males	50,00	5,161	2.19	113	111	2			
		Females .	50.00	3,628	3.11	113	113				
		Total		5,237	2.67	140	140				
Antrim	122	Males	55.00	2,867	2.69	77	77				
-		Females.	45.00	2,370	2.66	63	63				
	1	Total		1,804	3.05	55	39			d 16	
Baraga	96 4	Males	49.09	1,036	2.61	27	02			7	
	and and and and and and and and and and	Females.	50,91	768	3.65	28	19			9	
	Total		25,317	1.90	480	480					
Barry	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Males	48.33	13,284	1.75	232	232				
		Females.	51.67	12,033	2,06	248	248				
- 7		Total		38,081	3.05	1,160	1,158		2		
Bay	117	Males	53.97	21,098	2.97	626	625		1		
No. of Concession, Name of Street, or other		Females.	46.03	16,983	3.14	534	533		1		
- 1		Total		3,433	3.15	108	104	3	1		
Benzie	104	Males	50.93	1,862	2.95	55	51	3	1		
-	1	Females	49.07	1,571	3.87	53	58	ALC: U	Service S.	1	

For counties and townships from which no returns of births were received, see Table XXI.
 2 males and 1 female "Colored."
 5 males and 6 females White and Indian.
 2 males and 4 females White and Indian.

TABLE VI.—Continued.—Births by Counties, by Sex, and by Color.

	Births,—		Per Ct. of Births	Popula- tion in	Per Ct. of Births	CoL	ов,—Сн	ILDRE	n Bor	N IN 3	381,
COUNTIES.	Males to 100 Females.	Sex.	of each Sex to Total of both Sexes.	1880 Represented by Births in 1881.	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White,	Black,	Mu- latto.	In- dian.	Unk.
	[Total		36,785	1.68	618	612	8	3		
Borrien	115	Males	53.56	18,805	1 76	331	827	2	2		
	(Females.	46.44	17,930	1.60	287	285	1	1		İ
	1 1	Total		27,941	1.47	410	400	1			
Branch	95 {	Males	48.78	14,240	1.40	200	199	1			
		Females.	51.22	13,701	1.53	210	210				
	1 1	Total		38,452	1,42	547	534	6	1		
lelhoun	100	Males	55.17	19,599	1.53	299	288	6	1		
alhoun	123 4	Females.	44.83	18,853	1.29	243	241				,
	{	Unknown				5	5				
	ļ	Total		22,009	1.54	333	309	8	21		•
ass	89 {	Males	47.04	11,830	1.40	159	149	3	7		
] {	Fomales.	52.96	10,659	1.68	179	160	5	14		
	1 1	Total		4,117	3.04	125	116	1		8	
harlevolx	93 -	Males	48.80	2,200	2.77	61	56	1		4	
	(Females.	51.20	1,917	3.34	64	60		 	4	
		Total		6,524	2.94	192	191	 .	 	1	
heboygan	102 {	Males	50.52	3,760	2.58	97	97				
	{	Females.	49.48	2,764	3.44	95	94			1	
	(Total		4,777	1.36	65	59			a 6	
hippewa	150 <	Males	60,00	2,621	1.49	39	35			4	
		Females_	40.00	2,156	1.21	26	24			2	
	! ا	Total		4,157	2.01	84	84		 		
lare	121	Males	54.76	2,793	1.64	46	46				
		Females_	45.24	1,394	2.73	88	38		 		
	,	Total		28,100	1.57	442	441		1		
linton	96 {	Males	49.10	14,657	1.48	217	217		l		
		Females	50.90	13,443	1.67	223	224		1		
		Total		1,159	2.50	29	29		ļ		
raw ford	81	Males	44,83	683	1.90	13	13				
		Females.	55.17	476	3,36	16	16				
	•	Total	 	6,812	2,92	199	199				
Delta	1 1	Males	41.71	4,172	1.99	83	83				
	1 1	Females .	58,29	2,640	4.39	116	116				•••••
	I`		1	-,010	3.00	1					

^{• 2} males and 1 female White and Indian.

TABLE VI.—CONTINUED.—Births by Counties, by Sex, and by Color.

	Births,—		Per Ct. of Births	Popula- tion in	Per Ct. of Births	COL	ок,—Сн	ILDRE	n Bor	n in 1	1881.
COUNTIES.	Males to 100 Females.	Sex.	of each Sex to Total of both Sexes.	1880 Represented by Births in 1891.	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White.	Black,	Mu- latto.	In- dian.	Unk.
	(Total		31,225	1.95	608	584	1			23
Eaton	111	Males	52,72	16,072	1.99	320	306	1		 	13
Eaton	***	Females	47.28	15,153	1.89	287	277			 -	10
	į	Unknown				1	1	 -			
	ſ	Total	••••	6,639	2,02	134	102	 	1	a 81	
Emmet	97 {	Males	40.25	3,544	1,86	66	48		1	17	
	i	Females.	50.75	3,095	2.20	68	54			14	
	1	Total		39,220	1,69	663	657	• 4	2		ļ
Genesce	91 {	Males	47.66	20,042	1.58	816	313	2	1		
	(Females.	52,34	19,178	1.81	847	344	2	1		
	!	Total		611	1.96	12	12	·			 -
Gladwin	120	Males	54.55	417	1.44	6	6		 -		
GIAG WIII	120	Females.	45,45	194	2.58	5	5	j	ļ. 		ļ
	į į	Unknown		•••••	 	1	1		 :		
		Total		8,422	1.51	127	127				
G. Traverse .	108 -	Males	51.97	4,608	1.43	66	66				ļ
	(Females.	48.03	3,814	1,60	61	61				
	! !	Total		21,936	2,59	568	568			ļ	
Contlat	103	Males	50,62	11,687	2.46	287	287		ļ		
Gratiot	103	Females.	49.38	10,249	2.73	280	280				
		Unknown				1	1				 -
Hillsdale	!	Total		82,723	1.41	461	461				
milisuale	92	Males	47.94	16,544	1,34	221	221				
		Females.	52,06	16,179	1.48	240	240	ļ			 -
	! !	Total		22,478	8,40	765	761	1	1	2	ļ
Houghton	105 {	Males	51.11	12,242	8.19	391	388	1	1	1	
	(Females.	48.89	10,231	3,66	374	373		••••	1	 -
	!!!	Total		20,089	2.72	546	546				
17	94	Males	48,44	10,714	2,46	264	264			 	 -
Huron	94.1	Females.	51.56	9,875	3,00	281	281	ļ			
		Unknown				1	1				
	1	Total		33,676	1.57	529	521		7		1
Inches-		Males	47.16	17,899	1.48	249	245		4		
Ingham	89	Females.	52.84	16,277	1.71	279	276	 	8		
		i	ı	l	ı	ı l	1				1

^{• 1} female, White and Indian.

TABLE VI.—Continued.—Births by Counties. by Sex, and by Color.

	pittie,-		Per Ct. of Births	Popula- tion in	Per Ct. of Births	Cor	or,—Ch	ILDRE	n Bor	ו או א	881.
PAN MILES	Maisa (a)(M) b combine	HEX.	of each Sex to Total of both Sexes.	1880 Represented by Births in 1881.	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White.	Black.	Mu- latto.	In- dian.	Unk.
	ſ	Total		33,872	1.82	615	614				1
	116 4	Males	53,75	17,974	1.84	330	330			ļ	
been	1 10	Females.	46,25	15,898	1.79	284	284			ļ	
	į	Unknown				1				ļ. 	1
	ļ	Total	·····	6,873	2.88	198	198		ļ		
lunco .	98 ⊰	Males	49.49	4,097	2.39	98	98				
	(Females .	50.51	2,776	3.60	100	100	•			
	i (Total		12,159	3.68	374	267			7	
lashella	86	Males	46.26	6,602	2.62	173	169			4	
	ļ i	Females.	53.74	5,557	3.62	201	198			3	
Isie Royal.	-									ļ. 	
	1 :	Total		42,031	1.94	816	811	3	2		
Jackson	102	Males	50,49	21,833	1.59	412	410	1	1	 -	
	/ i	Females.	49.51	20,198	2.00	404	401	2	1		
	1	Total		34,342	1.65	565	559	7			
Kalamazoo	118	Males	54.16	17,343	1.76	306	302	4			ļ
	ļ i	Females.	45.84	16,999	1.52	259	256	S			
	۱ ۱	Total		2,987	3.00	83	33				
Kulkaska	110 {	Males	52.27	1,617	2.84	46	46				
	ત	Females.	47.73	1,820	3.18	42	42				
	(Total		78,258	2.34	1,714	1.689	7	1		17
Kent	100 4	Males	49.04	38,014	2,25	855	843	6			6
	100	Females.	50.06	35,239	2.43	857	845	1	1		10
	į į	Unknown		•••••		2	1			•••••	1
		Total	••••	4,270	7.21	308	308				
Keweenaw.	133	Males	57.00	2,396	7.30	175	175				
220 11 00 11 01 11 1	"	Females.	48.00	1,874	7.04	132	132			 .	
	(Unknown			•••••	1	1				
	! {	Total		3,233	2.57	83	32			1	
Lake	89-	Males	46.99	1,941	2.01	39	38			1	
	(Females.	53.01	1,292	3.41	44	44				
	. ſ	Total		80,139	1.82	550	548		2		
17	113	Males	53.1 0	15,827	1.84	291	239		2		
# 2000	•••]	Females.	46,90	14,811	1.80	257	257				
	Į (Unknown				2	2				
	·										

ma from county clerk to State Department.

TABLE VI.—CONTINUED.—Births by Counties, by Sex, and by Color.

OUNTIES, to	Riethe -		Per Ct. of Births	Popula-	Per Ct. of Births	COL	OR,-CH	LDREE	BOR	N IN I	881.
COUNTIES,	Males	SEX.	of cach Sex to Total of both Sexes.	1880 Represented by Births in 1881.	of each Sex to Popula- tion of same Sex.	Total of all Colors,	White.	Black.	Mu- latto.	In- dian.	Unk
		Total		6,253	2.35	147	143	2		2	
Leelanaw	. 93 -	Males	48.29	3,388	2.10	71	68	2		1	
		Females.	51.71	2,865	2,65	76	75			1	
		Total		48,343	1.46	707	702	3	2		
		Males	50.35	24,981	1.46	355	351	3	1		
Lenawee	101 -	Females.	49.65	24,062	1 45	350	349		1		
		Unknown		*********		2	9				
		Total		22,251	1.92	428	426	2			
Livingston	112	Males	52.80	11,620	1.94	226	226				
		Females.	47.20	10,631	1.90	202	200	2			
	1000	Total		2,468	1.18	29	29				
Mackinac	71 -	Males	41.38	1,395	.86	12	12				
		Females.	58.62	1,073	1.58	17	17				
		Total		31,627	1.92	608	606	2			
	104	Males	50.91	16,157	1.91	309	309				
Macomb		Females_	49.09	15,470	1.93	298	296	2			
		Unknown				1	1				
		Total		12,582	3.23	405	403		*******		
		Males	54.84	6,969	3.17	221	921	Janes II			
Manistee	. 121 {	Females.	45.16	5,563	3.27	182	182	******	******	******	
		Unknown	40.10	0,000	0.2.	9	2		******		****
		(Total	*******	1,334	1.42	19	19		******		****
Manitou	73 -	Males	42.11	718	1.11	8	8		******		****
Maniton	100	A Superior of	57.89	616	1.78		11		*****	******	
		Females.	01.09	1.50	1000	11	799	9			****
		Total		24,644	3.29	810	100001	2	******	******	
Marquette	108 -	Males	52.01	14,320	2.90	415	415				
		Females.	47.99	10,324	3.71	383	381	2	******		
		Unknown				12	3				
		Total	******	9,925	2.36	234	233	*****	******	1	
Mason	90 -	Males	47.44	5,575	1.99	111	111	******	******	*****	
	1	Females.	52.56	4,350	2.83	123	122	*****	******	1	
		Total	*******	13,973	2.10	294	290	3	******	1	
Mecosta	109	Males	52.22	7,626	2.01	153	152	1		******	****
	-	Females.	47.78	6,347	2.21	140	137	2		1	
	- 03	Unknown				1	1				

TABLE VI.—CONTINUED.—Births by Counties, by Sex, and by Color.

	Mirths,		Per Ct. of Births	Popula- tion in	Per Ct. of Births	Cor	OR,—CH	ILDRE	n Bor	M IN 1	881.
COUNTIES.	Malea to 100 Femalea.	NRA.	of each Hex to Total of both Bexes.	1880 Represented by Births in 1881.	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White.	Black.	Mu- latto.	In- dian.	Unk.
	١,	Total	ļ	11,987	2.89	347	346			• 1	
Mønominøø.	103	Malos	80.72	8,000	2,20	176	175		<u> </u>	1	
		Females.	49,28	3,987	4.29	171	171				
] ,	Total	 	6,893	2.36	163	163		ļ		
Midland	100	Males	81.23	3,780	2.20	83	83	}		 -	
MIIIIMIII	(00)	Females.	44.77	3,113	2.54	79	79		ļ		•••••
		l'nknown				1	1	j		ļ	
	١,	1\11a1		1,553	2.93	61	61	 			 -
Minnanker .	300	Males	80,00	843	3. 18	30	30				
		Females.	30,00	611	4.91	30	30			}	
		(l'nknown			!	1	1				
	1	1/4a1]	27.634	2.17	733	738		3		
M+H+H	1 112 3	Males	M.M	17,854	1 5.19	227	361		3	ļ	
	•	, trmnica .	47.00	36,274	2.10	344	344				
		WIAL .	:	27 July	1.30	200	#5				. 1
Minneralm	. 1304 .	Malra	W. W.	2:,143	. I'M	963	353				
	•	\$Amujer	42.44	14,721	24.5	: 382	**				
	•	, 8.MKWWW W	•			1	! 	!		j	1
		(MA)				\$	\$	•	<u></u>		
M.manananis		or: all	W (0)		**.*	*	2	:			
	•	sriemyt,	48° 'X			2	3		·		
		4444:		\$6.54	: 6	232	7.22			j	1
Wind New	***	W0.144	47.45	74 34	3.34	223	23	•		:	
		\$ Arter year	4:10	: "***	**	22.	32.			}	-
		, d mkmina				:		•			1
.		6/140,	** **	10 12	12	36	39K		1		
1444141		' fhanisho ' poite	44 A	()A)	: :£	**	326		1		*****
		. 4 habel 1000	4.4	*) 5/4°	: 19	3-2E	75.	•	1		2
		60 %	• •	4. 4.	1.2	***	**	•	1		Ī
106.000	₩.		98.99	79,900	3.70	- 98	447	31		To consider	
		Chamer	\$1.77.70	-		-					2
		Transi		1676	244	-	385	3		4	
Name .	144	COLUMN TO SERVICE AND ADDRESS OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY O	100		100	100		- 4		3	
		-			100			13		1	
11969.9											-
		1		1		1					

TABLE VI.—CONTINUED.—Births by Counties, by Sex, and by Color.

-	Births,—Males to 100 Females.		Per Ct. of Births	Popula- tion in	Per Ct. of Births	Core	OR,—CH	LDRE	N BOR	N IN I	881.
COUNTIES.		Sex.	of 1880 Rep each Sex to Total of both Sexes.		of each Sex to Popula- tion of same Sex.	Total of all Colors.	White.	Black.	Mu- latto.	In- dlan.	Unk.
75.75		Total		1,914	2.04	39	39				
	171	Males	63,16	1,168	2.05	24	24				
Jgemaw	101	Females	36.84	746	1.88	14	14				
0		Unknown				1	1				
		Total		1,605	2.93	47	47				
Ontonagon	104	Males	51.06	837	2.87	24	24				
		Females.	48,94	768	2.99	23	23				
		Total		10,777	2.59	279	279				
Osceola	129 -	Males	56.27	6,015	2.61	157	157				
1		Females	43.78	4,762	2.56	122	122				
		Total		467	1.71	8	8				
Oscoda	100 -	Males	50,00	291	1.37	4	4				*****
		Females	50.00	176	2.27	4	4				
	- 0	Total		1,974	2.53	50	50				
Otsego	213 -	Males	68,00	1,187	2.99	34	34				
		Females.	32.00	837	1.91	16	16				
	- 3	Total		33,126	2,38	787	784	1	1		
and the same of	202	Males	53.00	17,472	2,88	415	414	1			
Ottawa	113 -	Females.	47.00	15,654	2.35	368	367		1		
		Unknown				4	3				100
		Total		3,118	3.98	124	124				
Presque Isle	88 -	Males	46.77	1,701	3,41	58	58				
		Females	53,23	1,412	4.67	66	66				
		Total		1,459	2.26	33	33				
Rescommon.	154 -	Males	60.61	1,096	1.82	20	20				
		Females .	39.39	363	3.58	13	13				
	1 7	(Total		59,095	2,57	1,518	1,506	4	1	7	
Saginaw	111 -	Males	52,70	31,803	2,52	800	794	1		5	
		Females.	47,30	27,292	2,63	718	712	3	1	2	
		Total		26,341	2.62	689	689				
The Later of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot of the Lot o		Males	50,29	14,023	2,47	316	346				
Sanilac	101 -	Females	49.71	12,318	2,78	342	842				
		Unknown				1	1		1	Character of	10000

TABLE VI.—CONTINUED.—Births by Counties, by Sex, and by Color.

COUNTIES. M	Births,—		Per Ct. of Births	Popula- tion in	Per Ct. of Births	COL	OR,—CH	LDRE	N BOR	N IN 1	881.
COUNTIES.	Males to 100 Females.	Sex.	of each Sex to Total of both Sexes.	1880 Represented by Births in 1881.	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White.	Black,	Mu- latto.	In- dian.	Unk.
		Total		1,305	1,23	16	16				
Schooleraft.	129 -	Males	56.25	923	.98	9	9	*****			
		Females_	43.75	382	1.83	7	7				
		Total		27,059	1.74	470	470				
Shiawassee_	137	Males	57.82	14,248	1.89	270	270				
JIII W ASSUC.	101	Females	42,18	12,811	1.54	197	197	*****			
	1	Unknown				3	3				
	1	Total		46,197	2,06	952	949	3			
St. Clair	104	Males	51.01	23,922	2.01	482	480	2			
St. Clair	104	Females	48,99	22,275	2.08	463	462	1			
	13	Unknown				7	7				
	1	Total	*******	26,626	1.51	402	398	1	3		
St. Joseph	104 -	Males	51.00	13,516	1.52	205	205				
		Females	49,00	13,110	1.50	197	193	1	3		
	9	Total		25,738	2.27	583	583				
Tuscola	116 -	Males	53,69	13,644	2,29	313	313				*****
**********		Females	46.31	12,094	2.15	270	270				
		Total		30,807	1,66	512	497	4	9	2	
100 mm		Males	58.03	15,757	1.72	271	264	1	6		
Van Buren	113	Females	46,97	15,050	1,59	240	232	3	3	2	
		Unknown				1	1				
	9	Total		41,848	1.48	619	607	8	4		
Washtenaw.	116	Males	53,63	21,250	1.56	332	325	5	2		
	1	Females	46,37	20,598	1.39	287	282	3	2		
	1	Total		166,444	2.70	4,501	4,451	a 33	14	2	1
		Males	52,38	82,917	2,84	2,357	2,330	21	5	1	
Wayne	110	Females	47.62	83,527	2.57	2,143	2,121	12	9	1	
		Unknown	4			1					1
	1	Total		6,621	2.08	138	136			1	1
and the same of	100	Males	45.99	3,780	1.67	63	62	v		1	
Wexford	85	Females	54.01	2,841	2.60	74	74				
		Unknown				1	The second	1			1

a 2 males and 1 female "Colored."

PARENT-NATIVITY.

The facts on this important subject will be found in Tables VII., VIII., and Exhibit F. Table VII. shows the number and per cent. of children born of native, foreign, and mixed parentage in Michigan for the year 1881. These percentages vary slightly from year to year. It will be observed that 45.78 per cent. of all the children born during the year were those of native-born parents, and 33.27 per cent. were born of parents who were both foreign-born

TABLE VII.—Exhibiting, by Sex, by Number, and by Per Cent. of Total, the Parent-Nativity of Children Born in Michigan during the Year 1881, according to the Returns.

alexander at the same			To	TAL BI	RTHS, 18	881.		
NATIVITY OF PARENTS OF		Num	IBER.		P	ER CENT	OF TOTAL	.,
CHILDREN BORN, 1881.	Total.	Males.	Females.	Unk.	Total.	Males.	Females.	Unk.
All Nativities	34,749	17,941	16,747	61	100,00	100.00	100.00	100.00
Both Parents Native	15,907	8,183	7,706	18	45,78	45.61	46.02	29.51
Both Parents Foreign	11,560	5,941	5,599	20	33,27	33,11	33.43	32.78
Foreign Fatherand Native Mother	4,078	2,136	1,937	5	11.74	11.91	11.57	8.20
Foreign Mother and Native Father	2,075	1,116	958	1	5.97	6,22	5.72	1,64
Unknown Mother, Father Native	188	95	91	2	.54	.53	.54	3,28
Unknown Mother, Father Foreign	165	73	91	1	.48	.41	.54	1.64
Unknown Father, Mother Native	240	114	125	1	.69	.64	.75	1.0
Unknown Father, Mother Foreign	130	76	54		.37	,42	.32	
Both Unknown	408	207	186	13	1.17	1.15	1.11	21.31
One or Both Native	22,488	11,644	10,817	27	64.72	64.90	64.59	44.26
One or Both Foreign	18,008	9,342	8,639	27	51,82	52,07	51.58	44.26

Exhibit F affords an opportunity of comparing, for several years, the evidence relating to the parent-nativity of children born in Michigan. While the per cent. of native and foreign-born is smaller than usual, and below the average for ten years; on the other hand, in both classes of mixed parentage, the percentage for 1881 is larger than ever before. As heretofore, the percentage of children with "Foreign Father and Native Mother" is much larger than of the opposite class.

EXHIBIT F.—Parent-Nativity of Children returned as having been Born in Michigan during each of the Years 1876 to 1881, inclusive.

NATIVITY	187	76.	18	77.	18	78.	18	79.	18	80.	18	8].
OF PARENTS OF CHILDREN BORN.	Num- ber.	Per Cent. of Total.	Num- ber.	Per Cent. of Total.	Num- ber.	Per Cent. of Total.	Num- ber.	Per Cent. of Total.	Num- ber.	Per Cent. of Total.	Num- ber.	Per Cent of Total.
All Nativities	34,235	100.00	83,395	100.00	35,162	100.00	34,122	100.00	85,823	100.00	84,749	100.00
Both Parents Native	15,551	45,42	15,270	45,73	16,328	46,42	15,864	46,49	16,274	46.07	15,907	45.78
Both Parents Foreign Foreign Father and Na-	11,901	34.76	11,557	34.61	11,992	34.10	11,369	33,82	11,982	33.92	11,560	33,27
tive Mother	3,587	10.48	3,635	10.88	3,861	10,98	3,956	11.59	8,967	11.23	4,078	11.74
Foreign Mother and Na- tive Father	1,869	5.46	1,948	5.83	1,956	5,56	2,039	5,98	2,058	5,83	2,075	5.97
One or Both Unknown	1,328	3,88	985	2,93	1,030	2,93	894	2.62	1,042	2.95	1,129	3,25
One or Both Parents Native	21,006 17,856	61. 3 6 50.70	20,853 17,140		22,140 17,809	62.97 50.65		64.06 50.89	22,630 18,150	1	22,060 17,713	68.48 50.97
Native	17,703	51.71	17,392	52.08	18,489	52.58	18,045	52.98	18,468	52.28	18,170	52,29
Father ! Foreign	15,721	45.92	15,813	45.85	15,981	45.45	15,397	45.12	16,017	45.34	15,803	45.48
Unknown	811	2.37	690	2.07	692	1.97	680	1.99	838	2.37	776	2,23
Native	19,847	56,51	19,098	57.19	20,389	57.99	20,024	58.68	20,436	57.85	20,225	58.20
Mother{Foreign	13,853	40.46	13,599	40.72	14,082	39.91	13,492	89.54	14,115	39.96	18,765	39.61
Unknown	1,035	3,02	698	2.09	741	2.11	606	1.78	772	2.19	759	2.18

[.] Excluding cases where nativity of either parent is unknown.

The parent-nativity of children born in Michigan in 1881 may be studied also in Table VIII. This table shows the number of native, foreign, etc., in the different counties of the State.

TABLE VIII .- Exhibiting, for the State and Counties of Michigan, by Sex, the Total Number of Children Born during the Year 1881, and the Parent-Nativity of such Children, so far as stated in the Returns. (Still-births included.)

STATE AND COUNTIES.	- T	Children		1	Panetan	Parales	Mot			HEE	Wn.
	SEX.	Born, 1881.	Both	Both	Father	Foreign Mother and	Fat	her.	Mot	her.	Jukno
COUNTING		1001	Native.	Foreign.	Native Mother.	Native Father.	Na- tive.	For- eign.	Na- tive.	For- eign.	Both Unknown.
	Total	34,749	15,907	11,560	4,078	2,075	188	c 165	240	d 130	* 406
ztata b	Males	17,941	8,183	5,941	2,136	1,116	95	73	114	76	207
Stateb	Females	16,747	7,706	5,599	1,937	958	91	91	125	54	188
	Unknown	61	18	20	5	1	2	1	1		12
	Total	42	11	26	1	3		1			
Alcona	Males	15	3	10		2					
	Females .	27	8	16	1	1		1			
	Total	830	484	194	97	40	3		3	1	8
	Males	427	267	79	51	23	1		2	1	4
Allegan	Females.	401	217	115	46	17	2		1		-
	Unknown	2									3
	Total	226	19	152	23	15	2	12		1	
Alpena	Males	113	12	65	16	7	2	8		1	
	Females.	113	7	.87	7	8		4			
	Total	140	58	47	22	16	*****		1	1	
Antrim	Males	77	24	27	14	11	******		1		
	Females	63	29	20	8	5				1	
	Total	55	19	27	7	1			1		
Baraga	Males	27	10	14	3						
	Females .	28	9	13	4	1			1		
	Total	480	364	37	52	20	1		3	1	
Barry	Males	232	180	12	27	10	1		1	1	
	Females.	248	184	25	25	10			2		1118
	Total	1,160	288	604	150	112			2	1	-6
Bay	Males	626	155	320	88	61					1 3
	Females.	534	133	284	62	51			2	1	1/2
	Total	108	58	22	13	12	1	1	1		
Benzie	Males	55	30	13	4	7	1				
	Females .	53	28	9	9	5		1	1		

^{* &}quot;Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

* For countles and townships from which no returns of births were received, see Table XXI.

* 4 males and 4 females, mother "America."

* 5 males and 2 females, "America."

* 5 males and 7 females, "America."

TABLE VI.—Continued.—Births by Counties, by Sex, and by Color

	Births.—		Per Ct. of Births	Popula- tion in	Per Ct. of Births	Cor	or,—Ch	ILDRE	n Bor	ו או א	88
COUNTIES.	Males to 100 Females.	Sex.	of each Sex to Total of both Sexes.	1880 Represented by Births in 1881.	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White.	Black.	Mu- latto.	In- dian.	
		Total		33,872	1.82	615	614				
Tamia	116	Males	53,75	17,974	1.84	330	330		 		.
Ionia	110	Females.	46.25	15,898	1.79	284	284				ŀ
		Unknown				1					
		Total		6,873	2.88	198	198				ŀ
Iosco	98 -	Males	49.49	4,097	2.39	કલ	98				ŀ
		Females .	50.51	2,776	3,60	100	100				ŀ
		Total		12,159	3,08	374	267			7	ŀ
Isabella	86 -	Males	46.26	6,602	2,62	173	169			4	ŀ
		 Females .	53.74	5,557	3.62	201	196			3	١.
Isle Royal.										ļ. 	١.
		Total		42,031	1.94	816	811	3	2		١.
Jackson	102	Males	50,49	21,833	1.59	412	410	1	1		1
		 Females .	49.51	20,198	2.00	401	401	2	1	Ì	.
	1	Total		34,342	1.65	565	559	7			١.
Kalamazoo	118	Males	54.16	17,343	1.76	306	302	4			١.
		 Females .	45.84	16,999	1.52	259	256	S			Ì.
	į į	Total		2,987	3,00	83	88				١.
Kalkaska	110	Males	52.27	1,617	2,84	46	46				l.
		Females.	47.73	1,820	3.18	42	42				١.
	į į	Total		78,258	2.34	1,714	1.689	7	1		
		Males	49.04	38,014	2.25	855	843	6			l
Kent	100 -	Females.	50.06	35,239	2.43	857	845	1	1		l
		Unknown				9	1	 			l
	1	Total		4,270	7.21	308	308			Ì	١.
		Males	57,00	2,396	7,30	175	175				l.
Keweenaw.	133 -	Females.	48.00	1,874	7,04	132	132				L
		Unknown				1	1				l.
		(Total		3,233	2.57	S 3	32			1	Ĺ
Lake	89	İ .	46,99	1,941	2.01	39	38			1	I.
		Females.	53.01	1,292	3.41	44	41				
		(Total		30,139	1.82	550	548		2		ľ
		Males	53, 10	15,827	1.84	291	289		2		١.
Lapeer	113 -	Females	46,90	14,311	1.80	257	257				١.
		Unknown		· ·		2	201		*****	•	١.
	1	COUPDOMU				ا ا	-				ı.

[•] No returns from county clerk to State Department.

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

	1			1	OF PAR	1	-	THER		THER	-
Trainer	1	Children		-	Foreign	Foreign		NK.		NE.	IMOL
COUNTIES.	SEX.	Born, 1881,	Both Native.	Both Foreign.	Father and Native	Mother and Native	Fat	her.	Mot	her.	Both Unknown.
			2,4110	Torong III	Mother.	Father.	Na- tive.	For- eign.	Na- tive.	For- eign.	Both
	[Total	608	522	15	40	15	5		7	1	
	Males	820	278	9	18	8	3		2		
Saton	Females.	287	244	6	22	7	2		4	1	100
	Unknown	1							1		
	Total	134	91	24	8	5			3	1	
mmet	Males	66	46	11	3	3			2	1	
	Females.	68	45	13	5	2			1		1
	Total	663	427	81	98	53	3		3		
Genesee	Males	316	195	43	40	30	2		3		
	Females.	347	232	38	53	23	1				
	Total	12	5	5	1	1					
	Males	6	2	2	1	1					
ladwin	Females .	5	2	3							
	Unknown	1	1								
	Total	127	75	28	10	13				1	
Grand Traverse	Males	66	37	16	3	9				1	
	Females.	61	38	12	7	4					
	Total	568	424	48	50	85			9		
	Males	287	222	25	22	13			4		
Gratiot	Females .	280	202	23	27	22			5		
	Unknown	1			1						
	Total	461	404	16	15	14	2		3		
Hillsdale	Males	221	191	7	7	9	1		1		
	Females.	240	213	9	8	٥	1		2		
	Total	765	47	603	87	24	1		1	2	
foughton	Males	391	21	311	44	12			1	2	
September 1	Females.	374	26	292	43	12	1				
13	Total	546	69	365	64	38	1	2	1	2	-
	Males	264	31	176	32	18		1	1	9	1
Iuron	Females .	281	38	188	32	20	1	1			
- 19	Unknown	1		1	*******						
	Total	529	406	49	40	25	1		1	1	
	Males	249	196	17	18	11	1		1	1	
ngham	Females.	279	209	32	22	14					
	Unknown	1	1		100						

^{* &}quot;Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

TABLE VIII .- CONTINUED .- Births by Counties, Parent-Nativity, and Sex.

	1		N/	TIVITY	OF PAR	ENTS OF	F CHII	DREN	BORN	,-1881	. 6
		Children			Foreign	Foreign		THER NK.	FAT U:	THER NK.	own,
COUNTIES.	SEX.	Born, 1881.	Both	Both	Father and	Mother and	Fat	her.	Mot	ther.	Jukn
		1001,	Native.	Foreign.	Native Mother.	Native Father.	Na- tive.	For-	Na- tive.	For-	Both Unknown,
	[Total	615	447	52	76	36			2		2
	Males	330	241	31	40	15			1		2
Ionia	Females.	284	205	21	36	21			1		
	Unknown	1	1								
	Total	198	24	118	28	16					17
Iosco	Males	98	12	62	10	6					8
	Females.	100	12	56	13	10					9
	Total	374	208	79	58	25	9				2
Isabella	Males	173	98	36	24	13	1				1
	Females.	201	110	43	34	12	1				1
Isle Royal	b										
	Total	816	535	148	83	43	1	2	2	1	1
Jackson	Males	412	262	73	48	25			2	1	1
	Females .	404	273	75	35	18	1	2			
	Total	565	878	108	48	28			2	1	5
Kalamazoo	Males	306	201	59	27	14			2		3
	Females.	259	172	.49	21	14				1	2
	Total	88	58	11	13	5				1	
Kalkaska	Males	46	32	6	5	2				1	
	Females.	42	26	5	8	3					
	Total	1,714	783	614	189	80	7	8	14	5	14
	Males	855	386	310	104	37	2	4	4	4	4
Kent	Females.	857	395	304	- 85	43	5	4	10	1	10
	Unknown	2	2								
	Total	308	19	234	32	6		6	1	3	7
Famous	Males	175	7	140	13	5		5		1	4
Kewcenaw	Females .	132	12	93	19	1		1	1	2	3
	Unknown	1		1							
	Total	83	43	19	12	7	1	1			
Lake	Males	39	19	8	8	3		1			
4.	Females.	44	24	11	4	4	1				
	Total	550	230	176	81	60			1		2
Towns	Males	291	120	95	39	35			1		1
Lapeer	Females .	257	110	80	42	25					
	Unknown	9		1						Committee	1

was returned --

Those cases in which the birthplace

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

			N.	ATIVITY	OF PA	RENTS O	F CHI	LDREN	BORN	,-1881	,a
	-	Children			Foreign	Foreign		THER NK.		THER NK.	OWH.
COUNTIES.	SEX.	Born, 1881.	Both	Both	Father	Mother and	Fat	ther.	Mo	ther.	Unkn
		10011	Native.	Foreign.	Native Mother.	Native Father.	Na- tive.	For- eign.	Na- tive.	For-	Both Unknown.
	Total	147	36	81	19	8		1	1		1
Leelanaw	Males	71	19	38	8	4			1		1
	Females .	76	17	43	11	4		1			
	Total	707	509	91	68	23	4	2	5		1
	Males	355	253	50	33	14	1		2	*****	
Lenawee	Females .	350	255	41	35	9	3	2	3		
	Unknown	2	1								1
	Total	428	326	35	36	22	5	9	1		1 3
Livingston	Males	226	178	15	17	12	2	1	*****		1
1	Females.	202	148	20	19	10	3	1	1		
	Total	29	11	14	2	1		1			
Mackinac	Males	12	6	5	1						
	Females.	17	5	9	1	1		1			
	Total	608	264	216	75	41				b 1	1
AT .	Males	309	128	110	44	26					1
Macomb	Females.	298	146	106	30	15				1	
	Unknown	1			1						
	Total	405	99	242	47	13			2	1	1
	Males	221	54	134	25	6			2		
Manistee	Females.	182	43	108	22	7			-	1	
	Unknown	2	2							1	
	Total	19	5	6	5	3					
Manitou	Males	8	1	4	2	1					
	Females.	11	4	2	3	2		Cont.			
	Total	810	65	603	84	18	4	30	1	1	4
	Males	415	35	298	50	12	3	14	1	1	
Marquette	Females.	383	30	295	34	6	1	15			
-	Unknown	12		10	0.			1			
	Total	234	87	-97	30	15	1	2	2	******	
Mason	Males	111	41	43				1			*****
mason	Females	123	46	54	17	7 8	1	1	1		
	Total	294		82	1		******	1	1	1	
		200	143		30	33		******	1	1	4
Mecosta	Males	153	66	47	15	23	**	******	******	1	1
	Females -	140	76	35	15	10		*****	1		3
	Unknown	1	1			********		** (***			*****

^{* &}quot;Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

b I female, father "America."

TABLE VIII.—Continued.—Births by Counties, Parent-Nativity, and Sex.

]	Children		l	Foreign	Foreign		THER FK.		THER UK.	Į į
COUNTIES	SEX.	Born, 1881.	Both	Both	Father and	Mother and		her.		her.	Jukno
		1001.	Native.	Foreign.	Native Mother.	Native Father.	Na- tive.	For- eign.	Na- tive.	For-	Both Unknown
	Total	847	44	211	32	9	11	81			9
Menominoo	Males	176	24	110	20	5	3	11			8
į	Females	171	20	101	12	4	8	20	ļ		6
(Total	163	75	46	24	14	2				2
*****	Males	83	. 45	17	10	10	1		- -		
Midland	Females	79	80	29	14	4					2
į	Unknown	1					1		ļ		
1	Total	61	29	13	12	5	1		ļ		1
	Males	80	15	6	6	2	1		 	•	
Alisannkeo	Females.	80	13	7	6	8			 -		1
	Unknown	1	1								
ļ	Total	731	507	91	89	42	1		1		
Manieus	Males	887	278	40	45	27	1		1		
	Females	844	284	51	44	15			 -		
	Total	466	286	75	47	33	1	4	8	5	12
	Malos	263	158	42	26	21	1	2	8	8	7
Mantalu	Fomales	202	128	83	20	12		2	 -	2	5
	Unknown	1			1						
!	Total	8		5		2	1		 		
Muntinuronay	Malos	5		2		2	1		 		
	Females.	8		8							
	Total	713	207	365	77	45	8	2	4	1	b 9
	Males	875	106	187	44	2.	1	1	1	1	5
######################################	Females	837	101	177	33	16	2	1	8		4
	Unknown	1		1			•••••				
	Total	245	144	48	28	19	8	2	8	1	3
Me 441 Ro	Males	123	75	21	10	18	1		1	1	1
1	Females	122	69	22	18	6	2	2	2		1
1	Total	513	386	76	54	22	5	1	8	1	10
A to L do not	Males	280	182	42	29	12	4	1	5	,1	4
(Jakland	Females	231	154	84	25	10	1		8		4

a "Native" includes only those born in the United States. Those cases in which the birthplace "ed as "America" were compiled with the "Unknown."

'America."

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

		Children			Foreign!	Foreign	77	THER NK.		THER NK.	own.
COUNTIES.	SEX.	Born, 1881.	Both	Both	Foreign Father, and	and	1000	ther.	Мо	ther.	Both Unknown.
	1		Native.	Foreign.	Native Mother.	Native Father.	Na-	For-	Na- tive.	For- eign.	Both
	Total	240	146	43	23	20			4		
Oceann	Males	126	72	28	13	10			1		
	Females.	114	74	15	10	10			3		1 3
	Total	39	16	10	5	1	1	1		2	3
Onomore	Males	24	10	8	2		1	1		1	1 3
Ogemaw	Females .	14	6	2	3	1				1	1 3
	Unknown	1			********						
	Total	47	9	22	12	8		1			
Ontonagon	Males	24	4	9	8	2		1			
	Females	23	5	13	4	1				*****	
	Total	279	142	79	30	16				1	1
Osceola	Males	157	76	43	20	9				1	1
	Females.	122	66	36	. 10	7					1
9	Total	8	6	1	1						
Oscoda	Males	4	3	1							
	Females.	4	3		1						
	Total	50	24	18	1	3		1	1		1
Otsego	Males	34	18	10	1	2		1	1		3
-	Females.	16	6	8		1					1
	Total	787	328	302	95	38	6	ь 11	3	1	0 ;
	Males	415	188	147	54	18	3	3	2		
Ottawa	Females.	368	139	154	40	20	3	8	1	1	5
	Unknown	4	1	1	1						1
	Total	124	3	113	6	2					
Presque Isle	Males	58	2	53	2	1					
1	Females.	66	1	60	4	1					
	Total	33	18	9	4	1					1
Roscommon	Males	20	11	6	2	1					
	Females.	13	7	3	2						1
1	Total	1,518	468	618	247	132	2	1	10	2	38
aginaw	Males	800	247	338	116	67	2	1	3	2	24
	Females.	718	221	280	131	65			7		14
	Total	689	83	425	114	65			2		
Carlotte Control	Males	346	40	211	64	31					
anilac	Females.	342	43	213	50	34			2		
	Unknown	1		1					-3		AL

^{***}Yative" includes only those born in the United States. Those cases in which the birthplace sturned as "America" were compiled with the "Unknown." ales and 2 females, mother "America." • 2 females, "America."

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

		1	N/	TIVITY	OF PAR	ENTS O	F CHII	LDREN	BORN	,—1881.	.•
COLLEGE	0	Children			Foreign	Foreign		THER NK.		THER NK.	Both Unknown.
COUNTIES.	SEX.	Born, 1881.	Both Native.	Both Foreign.	Father and Native	Mother and Native	Fat	her.	Mo	ther.	dak
			Native.	Foreign.	Mother.	Father.	Na- tive.	For- eign.	Na- tive.	For eign.	Both
i	Total	16	6	7	1	1	1				
ì	Males	' 9	3	5	 	1	•••••				
į	Females.	7	3	2	1		1				
ſ	Total	470	305	71	49	29	10	2			1
Shiawassee	Males	270	183	42	22	19	3				1
	Females.	197	120	82	27	10	6	2	ļ		
t	Unknown	3	2				1				 -
ſ	Total	952	279	387	168	104	2	1	3	5	3
St. Clair	Males	482	148	197	89	42	1	ļ	2	1	2
	Females.	463	130	186	78	61	1	1	1	4	1
ŧ	Unknown	7	1	4	1	1			 -		
ſ	Total	402	277	63	27	8	16	1	3	1	6
St. Joseph	Males	205	139	27	17	4	10	. 1	3	1	3
į	Females.	197	138	. 36	10	4	6		 -		5
(Total	583	262	181	88	50	1				1
Tuscola	Males	313	138	98	50	26	1				
Į.	Females.	270	124	83	38	24					1
ſ	Total	512	414	21	43	24	1	1	7		1
Van Bunan	Males	271	220	13	22	12	1	-	2		1
Van Buren	Females.	240	193	8	21	12		1	5		
Į	Unknown	1	1								•
1	Total	619	325	150	78	45	9		5	1	6
Washtenaw	Males	332	159	91	38	32	4		3	1	4
l	Females.	287	166	59	40	13	5		2		2
ſ	Total	4,501	1,040	2,216	649	301	15	ъ 10	79	c 75	a 116
_	Males	2,357	534	1,155	852	168	7	4	39	42	56
Wayne	Females.	2,143	506	1,061	297	133	8	6	40	33	59
{	Unknown	1									1
۱	Total	138	64	12	15	6	22	14	2		8
_	Males	63	26	4	11	8	11	6	1		1
Wexford	Females.	74	38	8	4	8	11	8	1		1
				l i					1		l

 [&]quot;Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."
 2 males and 2 females, mother "America."
 3 males and 1 female, father "America."
 4 males and 5 females, "America."

TWIN CHILDREN, 1881.

There were 372 cases of plurality births in Michigan during the year 1881; this was 14 more than was recorded in 1880. In 124 cases both children were males; in 112 cases both were females; and in 136 cases there was one child of each sex, making 384 male and 360 female children, with a grand total of 744. In Table IX. the number of twin children are arranged in order, those months being placed first in which occurred the greatest number of twin births. The month of July heads the list with the largest number, while the month of August is at the foot with the smallest number. In 1881 there was an excess of males among the twin children, there being 107 males to 100 females. The proportion of plural births does not vary much from year to year, there being about one plural birth to every one hundred single births.

TABLE IX.—Exhibiting, by Sex, the Number of Pairs of Twins, and the Number of Twin Children Returned as having been Born in Michigan during the Year 1881, by Months Arranged in Order by Number; also, by Pairs and by Individuals, the Number of Males to 100 Females.

		NUM	DREN,	TWIN 1881.	CHIL-	NU	BER O	F PAIR	or T	WINS, 1	1881.
100	YEAR AND MONTHS, 1881.	Total.	Males.	Fe- males.	Males to 100 Fe- males.	Total.	Males.	Fe- males.	One of each Sex.	Males to 100 One of each Sex.	Males to 100 Fe- males.
Year	r, 1881	744	384	360	107	372	124	112	136	91	111
	July	84	45	39	115	42	16	13	13	123	123
0, of	December	74	36	38	95	37	10	11	16	62	91
Av. No.	January	76	45	25	180	35	16	6	13	128	266
C A	April	70	40	30	133	35	14	9	12	117	156
Twi	October	70	32	28	84	35	8	11	16	50	78
More than the A Twins.	March	66	39	27	144	33	14	8	11	127	175
loro	May	66	36	30	120	33	13	10	10	130	130
*	September	64	31	33	94	32	10	11	11	91	91
Ave	rage	52	32	30	107	31	10,3	9.3	11.3	91	111
4	[August	56	23	33	69	28	8	13	7	114	63
wine A	February	54	21	33	64	27	5	11	11	45	45
da T	June	36	19	17	112	18	5	4	9	55	125
No. of Twine,	November	32	16	16	100	16	5	5	6	83	100
Los	Unknown	2	1	1	100	1			1	100	

Statistics in regard to the nativity of the parents of twins may be studied in Table X. From this table it will be seen that of the 372 pairs of twins in 81, 173, or 46.51 per cent. of all were born of purely native parents. Turnback to Table VII. it will be seen that the proportion of native-born paris greater for twins than for all children born, and the same is true of

foreign-born parents. The difference, however, is much greater for foreign-born than for native-born parents, which would seem to indicate that there is a larger twin birth-rate among the foreign-born parents than among the native. This fact is also proved by the evidence of former years, and again by comparing the lines "One or Both Native," and "One or Both Foreign," in tables VII. and X. for 1881.

TABLE X.—Parent-Nativity of Twins Returned as having been Born in Michigan during the Year 1881.

			PAIR	s of I	WINS,	1881.		
NATIVITY OF PARENTS OF TWINS, 1881.		Num	BER.		ENT-1	NATIVIT	F EACH	TOTAL
	Total.	Males.	Fe- males.	One of Each Sex.	Total.	Males.	Fe- males.	One of Each Sex.
All Nativities	372	124	112	136	100.00	100.00	100.00	100,00
Both Native	173	60	56	57	46,51	48,39	50,00	41.91
Both Foreign	132	39	40	53	35,48	31.45	35,71	38.97
Foreign Father and Native Mother	42	13	10	19	11.29	10.48	8,93	13.97
Foreign Mother and Native Father	20	10	4	6	5.38	8.06	3.57	4.41
Unknown Mother, Father Native	1	1			.26	,81		
Unknown Mother, Father Foreign								
Unknown Father, Mother Native	3	1	2		.81	,81	1.79	.74
Unknown Father, Mother Foreign	1			1	.27		******	
Both Unknown.			*****				*****	
One or Both Native	239	85	72	82	64.25	68.55	64,29	60,29
One or Both Foreign	195	62	54	79	52.42	50.00	48.21	58.09

Exhibit 5 shows, by nativity and color, the per cent. of mothers who bore twins to all mothers. It will be observed that the per cent. is much larger among the foreign-born than among any other nativity or in mothers of all nativities. The per cent. among the black mothers is greater than among any other color.

EXHIBIT 5.—By Nativity and by Color of Mothers, the Number and Proportion of Twin Births Returned as having occurred in Michigan during the Years 1879 to 1881, inclusive.

		1879.			1880.			1881.	
NATIVITY AND COLOR OF MOTHERS OF TWINS.	Pairs of Twins.	Whole Number of Mothers, In- cluding those of Twins.	Per Ct. of Births of Twins to all Mothers.	Pairs of Twins.	Whole Number of Mothers, Including those of Twins.	Per Ct. of Births of Twins to all Mothers.	Pairs of Twins.	Whole Number of Mothers, Including those of Twins.	Per Ct. of Births of Twins to all Mothers.
Mothers of all Colors and all Nativities All Native Mothers All Foreign Mothers Mothers of Unknown Nativities	402 247 150 5	33,716 19,777 13,338 601		358 205 150 3	7 7 7 7 7 7	1.02 1.01 1.07	372 218 153	34,367 20,001 18,608 758	1.08 1.09 1.12
White	400	33,325 132 95	1,20 .76 1,05	351 2	34,497 127 72	1.02 1.57 1.39	364 3 2	34,013 116 82	1.07 2.59 2.44
IndianUnknown		122 42		4	146 111	2.74	2	93 63	2.15 1.59
Black and Mulatto	2	227	,88	8	199	1.51	- 5	198	2.53

It appears from Table XI, that more than one-half or 52.15 per cent. of the twin-births in 1881 were born of parents who were of the same state or country.

TABLE XI.—Parent-Nativity of Twins Returned as having been Born in Michigan during the Year 1881,—distinguishing between Parents who were Natives of the same State and those Born in Different States or Countries.

			PAIR	s of	TWINS	, 1881.		
NATIVITY OF PARENTS OF TWINS, 1881.		Nu	MBER.		ENT-	NATIVI	F EACH	COTAL
OF THIMS, IOI.	Total.	Males.	Fe- males.	One of Each Sex.	Total.	Males,	Fe- males.	One of Each Sex.
All Nativities	372	124	112	136	100.00	100.00	100.00	100.00
Same American State or Foreign Country	194	66	55	73	52,15	53.23	49.11	53,67
Different American States or Foreign Countries.	111	33	41	37	29.84	26.61	36.61	27,21
Foreign Father and Native Mother	42	13	10	19	11.29	10.48	8.93	13,97
Foreign Mother and Native Father	20	10	4	6	5,38	8.06	3.57	4,41
Unknown Mother, Father Native	1	1			.27	.81		
Unknown Mother, Father Foreign								
Unknown Father, Mother Native	3	1	2		.81	.81	1.79	.74
Unknown Father, Mother Foreign	1			1	.27			
Both Unknown								
Different States or Countries	173	56	55	62	46.51	45.16	49.11	45.59

[•] Includes "Different American States or Foreign Countries," "Foreign Father and Native Mother," and "Foreign Mother and Native Father." Compare with "Same American State or Foreign Country," and with same lines in Table XV.,—for still-born children.

TABLE XII.—Exhibiting, for the State and Counties, by Sex, the number of Pairs of Twins, the Number of Twin Children, and the Nativity of Parents of Twins Returned as having been Born in Michigan during the Year 1881. Nativity stated by Pairs of Twins.

	1	uals.	Twin	NAT	IVE.	Form	EIGN.			Мот	BEE		HER
STATE		vldı	10 8	- d		-		and or.	and	_	_	-	_
AND	SEX.	Indi	Pafr	Stat	ent	ame.	ent.	her	other an Father.	Pat	her.	Mot	ner.
COUNTIES.		Number of Individuals.	Number of Pairs of Twins.	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Native.	Foreign.	Native.	Foreign.
	Total	744	372	93	80	101	31	42	20	1		3	1
	Males	384	124	b 36	a 24	4 30	e 9	•13	10	11		g 1	
State	Females	360	112	h 27	29	1 28	12	10	4			19	
	One of each		136	30	J 27	k 43	10	f 19	6				1
Alcona	.Females	2	1		1						_	_	
	Total	26	13	4	2	4	1	1	1				
	Males	14	4	3	1								
Allegan	Females	12	3	1		r I			1				
	One of each		8		1	3	1	1					
	Total	8	4			4							
	Males	3											
Alpena	Females	5	1			1							
	One of each		3			3							
Antrim	.Females	2	1	r 1									
	Total	14	7	3	3	1							
-	Males	5	2	f g									
Barry	Females	U	4		3	1							
	One of each		1	1									
	[Total	19	6	9	1	2		1					
	Males	7	1					1					
Bay	Females	5											
	One of each		5	9	1	f 2							
	[Total	4	2	1				1					
Danula	Males	1						1					
Benzie	Females	3	1	1.1				1.00					
	One of each		1	*****				T					

^{*} See foot-note a to Table VIII.
b 3 pairs and 1 male still-born.
c 2 m.les still-born and 1 pair illegitimate.
d 1 male still-born and 1 pair illegitimate.
f 1 pair still-born.
g 1 pair illegitimate.

<sup>b 2 pairs and 1 female still-born.
l pair still-born, illegitimate, and Mulatto.
l pair and l male still-born.
k 1 pair and 3 males still-born and 1 pair illegiti</sup>mate.
1 1 female still-born.

TABLE XII.—CONTINUED.—Parent-Nativity of Twins.

		3	rins.	_ C	NATIV	ITY O	F PAR	ENT	S OF	Tw	INS,	1881.	n.
		duals	of Tw	NAT	IVE.	Fore	IGN.	pu	and r.	Mot		FAT	
COUNTIES.	Sex.	Indivi	Pairs	Parents Same State.	rent	Same y.	rent	ther al	Mother a e Father.	Fat	her,	Mot	her.
		Number of Individuals.	Number of Pairs of Twins.	Both Paren from Same	From Different States.	Both from Sar Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother a Native Father.	Native.	Foreign.	Native.	Foreign.
	Total	12	6	3	2	1							
	Males	10	4	2	1	1							
Berrien	Females	2											
	One of each		2	1	b 1							****	
Branch	.Males	6	3		2	1							
	Total	10	5	2	1			2					
	Males	5	2	b 1	1								
Calhoun	Females	5	2					2					
	One of each		1	1									
	[Total	10	5	1	3							1	
	Males	7	3	1	2								
Cass	Females	8	1									e 1	
	One of each		1		1								
	[Total	6	3			2	1			****			
	Males	5	2			1	1						
Charlevoix	Females	1											
	One of each		1			1							
Cheboygan	Males	4	2			1		1					
	(Total	4	2		1	1							
	Males	2											
Clare	Females	2											
	One of each		9		1	1							
	[Total	2	1			1					****		
	Males	1											
Delta	Females	1											
	One of each		1			1							
Eaton	Males	2	1							a 1			
	(Total	6	3	2	1								
	Males	5	2	2									
Emmet	Females	1											
	One of each		1		1					1		1	

<sup>See foot-note = to Table VIII.
I male still-born.
I pair still-born, filegitimate, and Mulatto.
I pair still-born.</sup>

		<u>.</u>	of Twins.		NATIV	TITY O	F PAI	RENT	s of		-		+	
		dual	T To		FIVE.	FOR	EIGN.	and er.	pur.	Mo	THER NK.		THER NK.	1
COUNTIES.	SEX.	udity	afra	ts tate.	ent	ише	ent.	ber a	her s	Fa	ther.	Mo	ther.	
		Number of Individuals.	Number of Pairs	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father an Native Mother.	Foreign Mother and Native Father.	Native.	Foreign.	Native.	Foreign.	
	(Total	18	9	4	1	2		2						
_	Males	7	8	1		1		1						
Genesee	Females	11	5	b 2	1	1		1						J
	One of each		1	1										
	[Total	2	1		1									Į.
Grand Traverse	Males	1												Į,
Grand Traverse	Females	1												1.
	One of each		1		1									1.
	[Total	20	10	4	3	*****	1	1	1					ŀ
Gratiot	Males	8	8	b 1	1		1				,.			ŀ
GIAUIOU	Females	12	5	2	1			1	1			****		-
	One of each		2	1	1									-
	Total	10	5	8	1				1					ŀ
Hilladale	Males	7	2	-1					1					-
	Females	8												-
	One of each		8	2	1									
	Total	20	10	1		6	2	1	****					
Houghton	Males	10	2			1	1							-
	Females	10	2			2								
	One of each		6	1		3	1	1						
	Total	8	4		1	1	2	***		•	****			-
Huron	Males	5	2		1		1							
	Females	8	1				1							
	One of each		1			1								
	Total	22	11	5	1	1	2	2						
ngham	Males	11	3	1	1			1			••••			4
	Females	11	8	2			1							-
1	Onc of each	·	5	2		1	1	1						
	Total	6	3	2	1									
Ionia	Males	3			+	****	•••••							
	Females	3		•		*****								
1	One of each		3	2	1									

<sup>See foot-note a to Table VIII.
1 pair still-born.
1 male still-born.</sup>

1		121	ins.	1	NATIV	TITY O	F PAI	ENT	8 OF	Tw	INS,	1881,	, a	
		luals.	f Twi	NAT	IVE.	FORE	HGN.	P	pi	Mor	HER		HER	1
COUNTIES.	SEX.	divid	drs o	ate.	pt	me	nt	er an	er an		her.		her.	1
		Number of Individuals.	Number of Pairs of Twins.	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Native.	Foreign.	Native.	Foreign.	Dock Platename
	(Total	4	2			2								
osco	Males	2	1			1								
	Females	2	1			1								
	Total	6	3			1	1	1						
	Males	5	2				1	1						
sabella	Females	1												
	One of each		1			1								ı
	Total	22	11	3	4	2		1	1					
	Males	9	4		1	2			1					ı
Jackson	Females	13	6	3	3									
	One of each		1					1						ŀ
	(Total	22	11	2	3	1	2	2	1					I
and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th	Males	8	1				1							1
Kalamazoo	Females	14	4	2	1		1							ı
	One of each		6		2	1		2	1					1
Kalkaska	Females	2	1						1					ı
	(Total	32	16	5	3	4	1	2	1					ı
and the same of	Males	16	4	1		2			1					ı
Kent	Females	16	4		2	1	1							ı
	One of each		8	4	b 1	1		b 2						1
	Total	6	3			3								1
with the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of t	Males	5	2			2								1
Keweenaw	Females	1												ı
	One of each		1			1								1
	Total	16	8	4	2	1	1							
Total	Males	10	8	1		1	1							1
Lapcer	Females	6	1		1									Į
	One of each		4	3	1									ı
Leelana w	Males	2	1	1									****	1
	Total	24	12	6	4	1		1						1
· Section 10	Males	12	5	3	1	1							***	ı
Lenawce	Females	12	5	2	2			1						1
	One of each		2	1	1			2.5			100			

^{*} See foot-note * to Table VIII. * 1 pair still-born.

•		uals.	Twins.	_	IVE.		F PAR	1	and r.	Mo	THER	(FAT	HEB	1
		livid	130	- 5	ــــــــــــــــــــــــــــــــــــــ	9		ather and Mother.			her.	-	ther.	1
COUNTIES.	SEX.	Number of Individuals.	Number of Pairs of	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father Native Mothe	Foreign Mother a Native Father.	Native.	Foreign.	Native.	Foreign.	
Livingston	Females	2	1		1					1				ľ
_	(Total	6	3	1		1		1						
	Males	2	ļ 											
Macomb	Females	4	1	1										
	One of each		2		<u></u> .	1		1						
	[Total	14	7		1	3	2	1						
	Males	5	1			1				į.				
Manistee	Females	9	8		1	1		1						
	One of each	İ	8		 	1	2							
Manitou	Females	2	1		1									1
	Total	12	6		1	3	1	1	***					1
	Males	7	3		1	1	1			4				1
Marquette	Females	5	2	*****	 	2								1
	One of each		1		 			1						
	Total	10	5	1	 	1	2	1						1
_	Males	5	2		 	1		ú						1
Mason	Females	5	2	1			1							
	One of each		1				1				1			
	[Total	16	s	3	1	2		1	1					
	Males	11	4	1	1	1			1	1				
Mecosta	Females	5	1	1	 -					1				Į.
	One of each		8	1		1		1		1		****		Į.
	[Total	6	8		1	1	1							1
	Males	2										****		
Menominee	Females	4	1		 .	1	j							
	One of each		2		1		1							1
Midland	Females	2	1				1							1
	[Total	20	10	.7		1			2					1
Mannaa	Males	13	4	3										1
Monroc	Females	7	1	1										1
	One of each		5	3		1				-				1

[.] See foot-note . to Table VIII.

4			rins.	1	NATIV	ITY OI	PAR	ENT	OF	Tw	INS,	1881.		
	0	Iduals	of Tw	NAT	IVE.	Fore	IGN.	and ir.	and r.		MER KK.		HER VK.	Ī
COUNTIES.	SEX.	udiv	airs	ste.	int	me	int	ner i	her	Fat	her.	Mot	her.	ŀ
1 1	2	Number of Individuals.	Number of Pairs of Twins.	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries	Foreign Father an Native Mother.	Foreign Mother and Native Father.	Native.	Foreign.	Native.	Foreign.	Both Tabacan
	Total	18	9	2	5		2							
	Males	11	5	2	b 3							****		ŀ
Montcalm	Females	7	3		1		2							Į.
	One of each		1		1			****						ŀ
	Total	2	1			1								Į.
Wantenana	Males	1						****						1-
Montmorency	Females	1												ŀ
	One of each		1			6 1								Ŀ
	Total	16	8	8	1	*****			4					Į.
Muskegon	Males	13	6	2	1				3					1
Atuskegon	Females	3	1						1					Į.
	One of each		1	1				****	****					Į,
	Total	6	3	1		1			1					ı
Newaygo	Males	4	1			b 1								ŀ
Newnygo	Females	2												ŀ
	One of each		2	1					1					ŀ
*	[Total	6	3	1		2								ŀ
Oakland	Males	4	2	1		1								1
	Females	2	1			1								ŀ
	[Total	8	4		3				1					l
Oceana	Males	4	1		1									ŀ
Occana	Females	4	1		1									ŀ
	One of each		2		1				1					ŀ
Ogemaw	Males	2	1		1	******							****	Į
	Total	4	2			2		****						Į
Osceola	Males	1			1									l
Osceom	Females	3	1			1								1
	One of each	*****	1		*****	1								Į.
Otsego		2	1		1									1
	Total	14	7	3	1	2	1							1
	Males	6	1			1								1
Ottawa	Females	8	2	1			1							1
	One of each		4	2	1	1								

^{*} See foot-note a to Table VIII.

^{7-1881.}

			Ins.	-	NATIV	TITY O	F PAI	RENT	S OF	Tw	INS,	1881.	4
		duals	of Twins.	NAT	IVE.	Fori	KIGN.	pi.	and ar.		HER		HER
COUNTIES.	Sex.	Indivi	of Pairs of	s tate.	ent	Same y.	ant	other.	her ar	Fat	her.	Mot	her.
		Number of Individuals,	Number of F	Both Parents from Same State.	From Different States.	Both from Sar Country,	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother ar	Native.	Foreign.	Native.	Foreign.
	(Total	30	15		3	8	2	2					
	Males	14	3		b 1		b 1	1					
Saginaw	Females	16	4		1	2		1					
	One of each		8		1	6	1						
	Total	8	4			2	1	1					
in the	Males	1											
anilac	Females	7	3			2	1						
	One of each		1					1					
	[Total	6	3	1		1			1				
hiawassee	Males	5	2	1					1				
mawassec	Females	1											
	One of each		1			6.1					** 14		
	Total	16	8	3	1		1	1	2				
t. Clair	Males	9	3	1	1				1				
v. Olali	Females	7	2	2									
	One of each		3				1	1	1				
	[Total	10	- 5		3	2							
t. Joseph	Males	4	1		1								
ь. эозери	Females	6	2		1	1							
	One of each		2		1	0 1							
	[Total	12	6	1	1	2	1	1					
Cuscola	Males	7	3	1		1		b 1					
	Females	5	2		1		1						
	One of each		1			1							
	Total	4	2		1			1					
an Buren	Males	3	1					1					
	Females	1				******					****	****	
	One of each		1		1								
	Total	22	11	4	3	2		1	1				****
Washtenaw	Males	9	2	1		1							
	Females	13	4	3	1								****
	One of each		5		2	1		1	1	****			

a See foot-note a to Table VIII. b 1 male still-born, c 1 pair illegitimate.

		13	fus.	-	NATI	VITY O	F PAI	LENT	SOF	TW	INS,	1881,	•	
	1	duals.	of Tw	NAT	TIVE,	Form	eign.	pu	pu		HER		HER VK.	-
COUNTIES.	SEX.	indivi	Pairs	state.	ent	ame	ent s.	her a	Mother and	Fat	her.	Mot	her.	
		Number of Individuals.	Number of Pairs of Twins.	Both Parents from Same State	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mot Native Fr	Native.	Foreign.	Native.	Foreign.	1 20 11 20 1
	Total	94	47	3	8	21	2	10				2	1	1
	Males	40	13	62		e 6		4				e 1		
Vayne	Females	54	20	1	5	9	1	3				1		1
3	One of each		14		3	6	1	3					1	1
4	Total	2	1					1						ŀ
Vandand	Males	1												1
Vexford	Females	1												1
	One of each		1					1						1.

^{*} See foot-note * to Table VIII.
b 1 pair still-born.
c 1 pair illegitimate.

TABLE XIII.—Occupations of Fathers of Twins Born in Michigan during the Year 1881, according to the Returns.

OCCUPATIONS.	Number of Each.	OCCUPATIONS.	Number of Each.
ALL OCCUPATIONS	372	Clerks	2
		Conductors on R. R.	1
Artesian Well-borer	1	Confectioners	2
Baggage-masters	1	Coopers	2
Bakers	1	Draymen	1
Barbers	1	Engineers	1
Blacksmiths	4	Engine-wipers	1
Book Agents	1	Farmers	184
Book-keepers	2	Finishers	1
Boot and Shoe Manufacturers	1	Firemen	1
Brass-finishers	1	Fishermen	3
Carpenters	14	Foremen	1
Carriage Painters	1	Gardeners	1
Cigar-makers	1	Gas-fitters	1
Cigar Manufacturers	1	Grocers	2

TABLE XIII.—CONTINUED.

OCCUPATIONS.	Number of Each.	OCCUPATIONS.	Number of Each.
Hotel-keepers	2	Plasterers	1
Insurance Agents	1	R. R. Employes	1
Jailers	1	Railroading	1
Jewelers	1	Sailors	1
Jobbers	1	Salesmen	1
Justices of Peace	1	Saloon-keepers	2
Laborers	56	"Saw-mill"	2
Land-lookers	1	Sawyers	1
Lawyers	1	Sewing Machine Agents	1
Loggers	1	Shoe-makers	1
Lumber Inspectors	2	Shoe-fitters	1
Lumbermen	3	Stone-cutters	1
Masons	1	Stone-masons	2
Mechanics	3	Switchmen	1
Merchants	6	Tailors	1
Millers	3	Teachers	2
Mill-hands	1	Teamsters	1
Miners	9	Telegraph Operators	2
Ministers	2	Tinsmiths	1
Moulders	1	Traveling Agents	2
Painters	4	Unknown	7
Physicians	3	Watch-makers	1

TRIPLETS.

There were five cases of triplets reported during the year 1881, of which, in three cases, the parents were both native, and in two cases the parents were both foreign. The parents of all the triplets were white.

TABLE XIX.—Exhibiting certain Details concerning Triplet Children Returned as having been born in Michigan during the Year 1881.

	TRI	PLET CHI	LDREN	, 1881.		PARENT	S OF TRIPL	ETS, 1881.
COUNTIES.	Month			SEX.		Birthplace	Birthplace	Occupation
	of Birth, 1881.	Color.	Males.	Fe- males.	Unk.	of Father.	of Mother.	of Father.
Barry	July	White	2	1		New York.	Penn	Farmer
Berrien	Feb	White	2	1		U. S	U. S	Laborer
Marquette	June	White		3		Ireland	Ireland	Laborer
Menominee	Nov	White	3			Sweden	Sweden	Miner
Monroe	Dec	White	2	1		Michigan	New York.	Laborer

STILL-BIRTHS, 1881.

There were six hundred and ninety-one (691) still-born children reported for the year 1881,—a smaller number than has been returned for any year since 1876. 378 were males, 270 were females, and of 43 the sex was not reported. The per cent. of still-births to living births in 1881 was 1.99, or one still-born to every 49 born alive.

According to the evidence in Exhibit 7 a larger proportion of the still-births

is born from foreign-born mothers than from native-born mothers.

The proportion of still-births among the white is much smaller than among those of the black and mulatto.

EXHIBIT 6.—The Relation of Still-births to all Children Returned as having been Born in Michigan during the several Years 1873 to 1881, inclusive, and of the Mothers of Still-born Children to all Mothers Returned as having Borne Children during each of the Years 1873 to 1881, inclusive.

CHILDREN			Тот	AL BIRT	HS AND S	TILL-BIR	тнв.		
AND MOTHERS.	1878.	1874.	1875.	1876.	1877.	1878.	1879.	1890.	1881.
All Children born	84,608	81,151	31,958	34,235	33,395	35, 162	34,122	85,323	84,749
Still-born Children Per Cent, of Still-born	a 348	464	629	646	720	798	749	738	691
to Total	1.01	1.49	1.97	1.89	2.15	2.26	2.20	2.09	1.99
All Mothers	84,180	30,739	31,586	83,791	33,028	34,729	88,716	84,953	34,367
Children	833	454	613	620	697	765	723	723	678
Still-born Children to All Mothers	.97	1.48	1.04	1.83	2.11	2,20	2.14	2.07	1.97

[.] As per returns of births.

EXHIBIT 7.—By Nativity and Color, the Number and Proportion of Mothers having Still-births in Michigan during the Years 1879, 1880, and 1881, according to the Returns.

	İ	1879.		ĺ	1880.			1881.	
NATIVITY AND COLOR OF MOTHERS.	Mothers having Still- births.	Whole No. of Moth'rs, includ- ing those of Still- births.	Per Cent. of Mothers of Still- births to all Moth'rs.	Mothers having Still- births.	Whole No. of Moth'rs, includ- ing those of Still- births.	Per Cent. of Mothers of Still- births to all Moth'rs.	Mothers hav- ing Still- births.	Moth'rs, includ- ing those of	Per Cent. of Mothers of Still- births to all Moth'rs.
Mothers of all colors and all nativities	728	33,716	2.14	723	34,953	2.07	678	34,367	1.97
All native mothers	367	19,777	1.86	871	20,223	1.83	352	20,001	1.76
All foreign mothers	280	13,338	2.10	285	13,961	2.04	272	13,608	2,00
Mothers of unknown nativities	76	601	12.65	67	769	8.71	54	758	7.12
White	706	33,325	2.12	706	34,497	2.05	650	34,013	1.91
Black	4	132	3.03	4	127	3.15	6	116	5,17
Mulatto	2	95	2,11	8	72	4.17	5	82	6, 10
Indian	1	122	.82		146			93	
Unknown	10	42	23.51	10	111	9.01	17	63	26,98
Black and Mulatto	6	227	2.64	7	199	3.52	11	198	5,56

EXHIBIT 11.—Occupations of Fathers of Still-born Children in Michigan in 1881, according to the Returns.

FATHERS.	C	HILDRE	N.	FATHERS.	C	HILDEE	N.
Occupations.	Males.	Fe- males.	Unk.	Occupations.	Males,	Fe- males,	Unk
Agricultural Agents	1			Lumber Manufacturers	1		
Architects	1			Machinists	2	2	1
Barbers	2	2		Marble-workers		1	
Blacksmiths	6	3	1	" Mantle and Grates "		1	
Boller-makers	1			Masons	1	3	
Boiler Manufacturers		1		Mechanics	2		
Book-keepers	1	1		Merchants	11	4	
Brakemen		1		Miners	11	8	1
Brewers	1	2		Ministers	1	2	
Butchers		1	1	Millers	1	4	
Cabinet-makers		3		Mill-wrights	and.	1	
Carpenters	17	6		Moulders	2		
Carpenters and Joiners	1			Musicians	1		1
Carpet-weavers	1			Painters	1	4	
Carriage-makers		1		Pail-makers	1	1	
Cheese-makers	1	1	-	The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa		2	1000
	1	1		Physicians	100000	2	
Cigar Dealers				Plasterers	1		****
Cigar-makers	4	3		Policemen	201	******	****
Clerks	2		*****	Polishers	1		
Coachmen		1		Printers	1	*****	-
Coal Dealers	1			R. R. Agents			
Conductors		1		Railroaders	1		
Confectioners	1	******		R. R. Employes	1	*****	****
Contractors		1		R. R. Engineers	1		****
Dentists	1			Real Estate Dealers	1	*****	
Dress-makers	1			Restaurant-keepers	1		
Druggists	1			Sailors	2		
Engineers	3	6		Salesmen	1		
Expressmen	*****	1		Saloon-keepers	2	2	
Farmers	158	124	17	Sawyers	2		
Farm Laborers		- 1		Shoe makers	.5	2	2
Finishers	1			Shoe-mounters		1	
Fishermen	3	1		Shingle Manufacturers	1		
Foremen of R. R. Yards	1			Ship-carpenters	1		
Furniture Dealers		1		Teamsters	5	3	
Gardeners		1		Traveling Agents	1		
Grocers	1			Tug Captains	1		
Harness-makers		1		Unknown	23	22	
Hostlers		1		Vagabonds	1		
Hotel-keepers	1			Vessel Loaders	70		
Inspectors	1	******		Wood-carvers		1	
Insurance Agents	1	1		Wood-turners		1	
Laborers	74	36	6	Wood-sawyers	1	-	
Lawyers	14	1	-	Wood-workers		1	
		1 70		WOOd-WOLKERS	******		****
Lumbermen	1	3					

Statistics concerning the nativity of the parents of still-born children may be studied further in Tables XIV. and XV.

TABLE XIV.—Exhibiting, by Sex, the Parent-Nativity, and by Sex and by Months, the Number of Still-births in Michigan during the Year 1881, according to the Returns.

	1	·um(Both Unkno	99	21	18	1
	M	er.	Foreign.	01	-	-	1
	FATHER UNE.	Mother	Native.	10	-	63	i
		-	Foreign.	90	Q¥	ì	-
1881.	MOTHER UNK.	Father	Antive.	9	0	i	-
TES,	-PN DII	ather a	Foreign Mo	22	81	=	7
L-BIB	-	отрет	Foreign Fa	09	31	22	-
BTIL		1	Different Co tries.	=	83	=	C4
8 OF	FOREIGE.	-	Same Count	194	26	65	15
RENT	ا ي		Total	235	25	93	17
OF PA		.8918	da instend Different Bi	123	2	\$	•
NATIVITY OF PARENTS OF STILL-BIRTHS, 1881.	NATIVE		Same State	169	16	57	9
NA	N	-	Total.	565	164	116	12
	NT.6	OAN.	Mother.	500	118	8	8
	PARENTS BORN IN	Мюнюам	Father.	171	16	11	9
			Unknown.	01	01	T	1
			December.	88	4	7	90
			Хоуетьег.	88	60	5	10
			.TadotaO	12	98	76	-
			September.	15	83	153	60
31.			August.	2	37	83	•
8, 18			July.	55	98	11	9
MONTHS, 1881.			1ane	69	34	93	00
M			May.	70	27	81	10
			April.	7	81	01	-
			Матек.	46	31	15	
			Рергиату.	55	88	81	10
			January.	7	83	8	60
		1 EAE, 1881.		. 691	b 378	c 270	43
		SEX.		Total	Males	Females.	Unknown

2**.5**

a spairs and 6 half pairs male twins: 4 pairs and 1 half pair female twins; 3 pairs, one of each sex; and 1 set of triplets. b 10 twin children, 2 triplet children, 8 illegitimate, 3 Black, 1 "Colored," and 2 Mulatto.
1 triplet to hid, 1 triplet to hid, 6 illegitimate, 2 Black, and 4 Mulatto.
2 White, and 17 color unknown.

TABLE XV.—Parent-Nativity of Still-born Children,—Exhibiting, by Sex, the Number and Per Cent. of Total Number Returned as having been Born in Michigan during the Year 1881, of Parents who were Natives of the Same and of Different States or Countries.

	1		STI	LL-BOR	N CHILD	REN, 188	1.	
NATIVITY OF PARENTS OF STILL- BORN CHILDREN, 1881.		Nux	GBER,				PARENT-N	
	Total.	Males,	Fe- males.	Un- kno'n.	Total.	Males.	Fe- males.	Un- known.
All Nativities	691	378	270	43	100.00	100.00	100.00	100.00
Same American State or Foreign Country	363	188	154	21	52,53	49.74	57.04	48.84
Different American States or Foreign Countries	164	101	55	8	23,73	26.72	20.37	18,60
Foreign Father and Native Mother	60	31	25	4	8.68	8,20	9,26	9.30
Foreign Mother and Native Father	37	22	14	1	5.36	5.82	5.18	2.32
Unknown Mother, Father Native	6	5		1	.87	1.32		2,33
Unknown Mother, Father Foreign	3	2		1	.43	.53		2.33
Unknown Father, Mother Native	10	7	3		1.45	1.85	1.11	
Unknown Father, Mother Foreign	9	1	1	*****	.29	.26	.37	
Both unknown	46	21	18	7	6.66	5,56	6,67	16.28
Different States or Countries	261	154	94	13	87.77	40.74	34,81	30,23
Native	292	164	116	12	42.26	43.39	42,96	27.91
Foreign	235	125	93	17	34.01	33.07	34.44	39,53

ILLEGITIMATE CHILDREN, 1881.

The number of illegitimate children returned as having been born in Michigan during the year 1881, is 382. This is smaller by 43 than the number returned for 1880. The average annual number for the ten years 1872-1881, is 283, while the average for the thirteen years 1868-1880, is 233. The year 1880 showed the largest number of previous years, but the year 1881 is not far behind in point of numbers; the increase in the two years being quite important. The average per cent. of illegitimate children to all children born for the period of ten years 1872-1881, is .84, while the per cent. for 1881 is 1.10, or one illegitimate birth to every 90 born in wedlock.

Exhibit 9 contains data concerning the nativity and color of mothers of illegitimates. It is important to remember in this connection that the facts in regard to these births are very incomplete, it being in the nature of things very hard to get them. The largest per cent. of mothers of illegitimates to all mothers appears for the Black, and the smallest for the White. The proportion of the sexes among these children for the year 1881 was about equally

divided, there being 99 males to 100 females.

Table XVII. contains some important evidence on this subject. It is seen that the birth-rate of illegitimates to population is largest among the Black and Mulatto, and smallest among the White.

EXHIBIT 8.—The Relation of the Illegitimate Children to All Children Returned as having been Born during the several Years 1876 to 1881, inclusive, and of Mothers of Illegitimates to All Mothers Returned as having Borne Children in Michigan during each of the Years 1876 to 1881, inclusive.

	3	TOTAL B	IRTHS AN	D ILLEG	ITIMATES	
CHILDREN AND MOTHERS.	1876.	1877.	1878.	1970.	1880,	1881.
All Children born	34,235	33,395	35,162	34,122	85,323	34,749
Illegitimate Children	266	316	n 202	292	425	382
Per Cent. of Illegitimates to Total	.78	.95	.57	.86	1.20	1,10
All Mothers	33,791	33,028	34,729	33,716	34,953	34,367
Mothers of Illegitimate Children	262	312	a 202	289	423	378
Per Cent, of Mothers of Illegitimates to All Mothers	.78	.91	,53	.86	1.21	1.10

a The number of illegitimates returned for Wayne county for 1878 is probably too small by about 70 births. Heretofore the children born in the "Foundlings' Home," in the ninth ward of Detroit, have generally been returned as illegitimate; but we are unable to get any such statement for 1878, although there is no doubt that those children whose fathers' names are reported "Unknown" (the mothers' names being given), in the said ninth ward, are illegitimate.

EXHIBIT 9.—By Nativity and Color, the Number and Proportion of Mothers of Illegitimate Children Returned as having been Born in Michigan during the Years 1879 to 1881, inclusive.

		1879.			1880,			1881.	
NATIVITY AND COLOR OF MOTHERS.	Mothers having Helegitimates.	Mothers includ- ing	Per Ct. of Mothers of Hiegiti- mates to all Moth'rs.	Mothers hav- ing Il- legiti- mates.	Mothers includ- ing	Per Ct. of Moth- ers of Illegiti- mates to all Moth'rs.	Mothers having Illegitimates,	Whole No. of Mothers includ- ing those of Illegiti- mates.	Per Ct. of Moth- ers of Illegiti- mates to all Moth'rs.
Mothers of all colors and all na- tivities	289	33,716	.86	423	34,953	1.21	378	34,367	1.10
All Native Mothers	136	19,777	.69	147	20,223	.73	185	20,001	.92
All Foreign Mothers	89	13,338	.67	72	13,961	.52	96	13,608	.71
Mothers of unknown nativities.	64	601	10,65	204	769	26.53	97	758	12.80
White	266	33,325	.80	408	84,497	1.18	365	34,013	1.07
Black	7	132	5.30	4	127	3.15	6	116	5.17
Mulatto	4	95	4.21	3	72	4.17	3	82	3.66
Indian	a 11	122	9.02	7	146	4.79	4	93	4.30
Unknown	1	42	2.38	1	111	.90		63	*******
Black and Mulatto	11	227	4.85	7	199	3.52	9	198	4.55

[.] I female half Indian; I male and 2 females White and Indian.

'IABLE XVI.—Exhibiting, by Sex, the Total Number, Number by Months, and the Nativity of Parents of Illegitimate Children Born in Michigan, during the Year ending December 31, 1881, according to the Returns.

-87		Пркромр.	314	157	156	
NATIVITY OF FATHERS OF ILL! OITINATE CHILDREN, 1881.	N.	Born in Other Countries.	11	90	0	1
CITIMATE CHILDREN,	FORRIGN.	Born in Can- nda.	16	10	9	i
FAT	F	Total.	200	18	12	1
A OF	'n	Born in Other States,	6	01	1	1
DITIN	ATIVE	Born in Mich- igan.	26	13	13	- 1
NA.	A	Total.	53	22	30	1
· TE		Опклочп.	169	48	49	1
1881	W.	Born in Other Countries.	46	65	17	-
HERS DREN	POREIGN	Born in Can- ada.	25	22	27	
MOT	A	Total.	88	54	=	-
TOP	'n	Born in Other States.	20	22	60	1
NATIVITY OF MOTHERS OF ILLE- GITHMATE CHILDREY, 1881.	ATIVE.	Born in Mich- igan.	1117	20	99	7
	×	Total.	187	88	88	-
		Unknown.	-	1	1	1
		Десешрет.	40	16	35	1
		Хочетьет	96	97	10	-
		October	34	15	19	1
		September.	100	16	18	1
		August.	83	12	10	1
MONTHS, 1881.		Amp.	53	18	11	1
ONTI		Jame,	34	18	91	-
N		May.	38	81	16	i
		April.	53	12	50	1
		March.	30	23.	18	
		February.	27	18	6	1
		.Tannat.	75	10	=	1
		УЕАН,	a 382	e 190	161 P	1
		SEX.	Total	Males	Femules.	Unknown

*8 males and 5 females still-born; 2 pairs male twins, 1 pair female twins, and 1 pair one of each sex. I male "America." • 1 Black, 3 "Colored," and 8 Indian.

TABLE XVII.—Exhibiting, by Color and by Sex, the Population June 1, 1880, the Number of Illegitimate Children Returned as having been Born in Michigan during the Year 1881, the Per Cent. of such Children to Inhabitants, the Per Cent. of each Sex to the Total of both Sexes, and the Number of Inhabitants to each Illegitimate Child Reported.

ĺ	Popula-				
COLOR OR RACE. SEX.	tion June 1, 1880, Represented by Births in 1881.	Total Illegiti- mate Births, 1881,	Per Cent. of Births to Popula- tion.	Per Cent. of Each Sex to Total of Both Sexes.	Number of Inhab- itants to one Ille- gitimate Child of the same Color.
Total	. 1,629,635	882	.02		4,266
All Colors	. 857,968	190	.02	49.87	4,516
Females	. 771,687	191	.02	50.13	4,040
(Unknown	.	1			
	·		l	<u> </u>	
Total	1 ' '	368	.02		4,368
White				49.86	····
Females		184		50.14	
(Unknown					
Total	1	i			
Black	-	4		68.67	
į Females	-	2		88,88	
Total	-	4			
Mulatto	-				
Females	-	4		100.00	
Total	7,044	4	.06		1,761
Indian	-	8		75.00	
Females	-	1		25.00	
Total	-	ļ			
Unknown Males	-	¦		¦	
Females	.		 		
Total		1	.07		1,509
Black and Mulatto Males	-	4		40.00	•••••
Females	-	6		60.00	

⁻ Includes 28 Asiatics.

TABLE XX.—Exhibiting the Number of Males to 100 Females among Twin Children, and the Number of Illegitimate and Still-born Children, Born during the Year 1881.

STATE	Twin Chil-	Number	Number	!	Twin Chil-	Number	
AND	dren,— Number	of Illegiti- mate Chil-	of Still-		dren,— Number	of Illegiti-	Number of Still-
COUNTIES.	of Males to 100	dren born	births in 1881.	COUNTIES.	of Males to 100	mate Chil- dren born	births in
COUNTIES.	Females.	in 1881.	1001.		Females.	in 1881.	1881.
State	107	882	691	Leelanaw	ъ	2	1
Alcona	•		1	Lenawee	100	3	6
Allegan	117	4	23	Livingston		1	10
Alpena	60	2	3	Mackinac		1	
Antrim	•	2	3	Macomb	50	2	11
Baraga		1	1	Manistec	56	3	6
Barry	56	5	10	Manitou			
Bay	140	2	21	Marquette	140	1	26
Benzie	83	1	4	Mason	100		1
Berrien	500	3	8	Mecosta	220		5
Branch	ь	5	6	Menominee	50		3
Calhoun	100	3	11	Midland	•		8
Cass	233	5	8	Missaukoe			1
Oharlevoix	500	1		Monroe	186	1	20
Dheboygan	ъ	2	5	Montcalm	157		8
Chippewa		1	2	Montmorency	100		1
Clare	100		1	Muskegon	433		8
Olinton			5	Newaygo	200	1	1
Delta	100	1	3	Oakland	200	7	14
Eaton	ъ	4	9	Oceana	100	1	11
Emmet	500	8	1	Ogemaw	ь	2	1
Genesee	61	5	11	Ontonagon			1
Gladwin			1	Osceola	33	2	5
Grand Traverse	100		5	Otsego	ъ		1
Gratiot	67	3	7	Ottawa	75	4	16
Hillsdale	233	2	9	Presque Isle			9
Houghton	100	5	24	Roscommon			1
Huron	167	1	8	Saginaw	88	18	49
Ingham	160	3	6	Sanilac	14	3	12
Ionia	100		12	Shiawassee	500	2	9
Iosco	100		4	St. Clair	129	5	28
Isabella	500		4	St. Joseph	67	10	12
Jackson	69	2	n	Tuscola	140	3	18
Kalamazoo	57	3	10	Van Buren	300	6	11
Kalkaska			2	Washtenaw	69	4	13
Kent	100	23	28	Wayne	74	203	91
Keweenaw	500	3	่ ช	Wexford	100	1	2
Lapser	167	2	18	ļ	l	İ	l

[.] No males.

No females.

TABLE XVIII.—Exhibiting the Number of Males to 100 Females, and by Sex, the Number and Per Cent. of Total Number of Illegitimate Children Born of Native and of Foreign-born Parents, in Michigan, during the Year 1881, according to the Returns.

				IL	LEGITI	MATE C	HILDREN	, 1881.		
NATIVITY OF PA		Number		NUM	BER.		P	RE CENT	OF TOT	A I.
1001.		Males to 100 Fe- males.	Total.	Males.	Fe- males.	Unk.	Total.	Males.	Fe- males.	Unk.
All Nativities		99.48	382	190	191	1	100.00	100.00	100.00	100.00
	Native	89.80	187	88	98	1	48.95	46,32	51,31	100,00
Mothers	Foreign	122.78	98	51	44		25.65	28,42	23.04	
	Unknown.	97.96	97	48	49		25.39	25 26	25,65	
	Native	75.00	85	15	20		9.16	7.89	10.47	
Fathers	Foreign	120,60	33	18	15		8,64	9.47	7.85	
4	Unknown.	100.64	314	157	156	1	82,20	82.63	81 68	100,00

The following exhibit shows the townships in this State in which it was reported that no births occurred in 1881. It also gives the population of these townships and the counties in which they are located. These townships represent a population of 1,895, but it seems hardly probable that no births occurred in the township of Wilcox, Newaygo county, which has a population of 850.

EXHIBIT 10.—Townships in which it is Reported that there were No Births in 1881.

COUNTIES.	Townships,-No Births	Popu	LATION IN	1880.
COUNTES	TN 1881.	Total.	Males.	Females
Total		1,895	1,351	544
Baraga	Spurr	120	78	42
Benzie	Lake	42	26	16
	[Eden	92	49	43
Lake	Lake	90	57	33
	Yates	257	142	115
Newaygo	Wilcox	850	609	241
Roscommon	(Denton	210	162	48
AUSCOMMON	Nester	234	228	6

There were 20 townships and one entire county from which no returns of births were received for the year 1881. Table XXI. gives the names of these townships and their population in 1880. It should not be necessary for us to make a table of this kind, and it would not be if all the supervisors of the State would do their duty and comply with the law.

TABLE XXI.—Exhibiting the Counties and Townships from which no Returns of Births in 1881 were received, and by Sex and by Color, the Number of Inhabitants June 1, 1880, in such Counties and Townships.

		Por	POPULATION JUNE 1, 1881,	31,		WHITE.		BLA	BLACK AND MULATTO.	o.o	IN	INDIAN.		NATIVE	IVE.		FOREIGE.	KON
COUNTIES.	TOWNSHIPS PROM WHICH NO ER- TURNS OF BIRTHS WERR RECEIVED FOR 1881.	Total.	Males.	Females.	Total.	Males.	Females.	Total	Males.	Females.	Total.	Males.	Females.	Total.	Temales,	1.	Total.	Males.
Totals		7,282	4,387	2,595	7,064	3,178	2,151	13	61		500	11	12 4,	4,948 2,208	1,694		2,334 9	699 986
Charlevoix	Eveline.	365	197	168	360	193	167		111	111	10	-	- 1		1 000	1		107
Сырреми	(Melrose	471	37	186	366	37	43	=	11	11	1 76	11	11	- 1	16	80	221	13
Gladwin	GroutAll Townships	516	332	184	516	332	184	11		T	ii	11	11	34 17	110 11	121	216 1	13
Mackinac	Hendricks	434	102	140	409			1	1		52	1	-	17		1	111	
Marquette	Iron River	750	440	310	750					1	i		1 "	1 088				
Mason	Lincoln	140	18	202	140	18	56	1				i	-		200 8			18
Newaygo	Grant	512	307	200	511	300	202	-	-	11		1 1	1 1	-		176	2	16
Ogemaw	Vest Branch			11				11	11	11	ii	11	11	11	11	11	11	11
Ontonagon	Carp Lake	73	48	437	878	4 #	22 624	11	T	11	- =	4 9	20 00	36 35	18 28	18 297	37	30 7
Schoolcraft	Munising	270	121	96	210			11	11	11	93	11	11	111	11	11	123	11
Wexford	South Branch	194	123	11	194	123	71	11	11	11	ii	11	11	321	2	99	89	19

a Organized since census was taken.

SEX OF CHILDREN.

The statistics of births in 1881, in Michigan, are in harmony with those of previous years concerning the proportional number of the two sexes, the excess of male births, and the influences of season of year, parent-nativity, etc., upon the sex of offspring. The tables and exhibits which follow contain much that is interesting and important in regard to this subject. Attention may be called to Exhibits N, O, and P, which give, respectively, the number of births by months, as they are returned, as equalized to months of equal length, and as corrected for omissions in the enumeration.

TABLE XXII.—Exhibiting, by Months, the Relation between the Total Number of Conceptions during certain Months of the Years 1880-81, and the Proportion of each Sex Conceived during the same time and Born during the Year ending December 31, 1881, according to the Returns.

	Concu	PTIONS FOI	Вікти	8 IN 1881. a	
Birth	s of 1880 and 1881 of Conceptions of as in 1881, in order by number, the first.	Total Number of Concep- tions. b		ns of 1880 and 1881, in order by num- of Males to 100 Pemales, greatest	Number of Males to 100 Females.
	^ April	2,847	Av.	July	116
Average Con-	Мау	2,637		April	112
	September	2,748	an t rtio	January, 1881	112
an the Anber of Ceptions.	June	¥,781	70 E	September	109
than the dumber of ceptions	August	2,830	More than the Proportion Males.	October	109
Less than the Number of ception	July	2,845			
À	 February, 1881	2,888	Avera	ge	107
•		2,889		May	103
Avera	ge	2,589	Aver- Ion	June	106
	October	2,966		March, 1881	106
of of one.	January, 1881	3,020	than the Proportion of Males.	Auguste	104
eptie	March, 1881	3,113	of P	November	104
More than the A Number of Conceptions.	December	8,246	Less	December	104
Mo	November	3,249		February, 1981	102

a Equalized to months of 30,44 days each, and excluding unknown sex and unknown month. b For purposes of this study the time of conception is presumed to be nine calendar months previous to the month of birth.

• Exceptions to the proposition that more than the average proportion of males were conceived in months in which less than the average total number of conceptions occurred, and vice versa.

TABLE XXIII.—Exhibiting, by Months, the Relation between the Number of Conceptions and the Number of Males to 100 Females. Conceptions estimated from Births Corrected as if Enumerated in Months of Occurrence and Equalized to Months of uniform length.

	Conc	EPTIONS FO	R BIRTE	is, 1881. a	
Births Corre- occur- unifor	of 1880 and 1881 of Conceptions of s in 1881, estimated from Births cted as if enumerated in months of rence, and equalized to months of rm length. Months arranged in by number, the least first.	Number of Concep- tions as Corrected and Equal- ized.b	Births Corre- occur- unifor order	of 1880 and 1881 of Conceptions of in 1881, estimated from Births cted as if enumerated in months of rence, and equalized to months of rm length. Months arranged in by number of Males to 100 Females, est first.	Number of Males to 100 Females. Births Corrected and Equal ized.
- TA-	February, 1881	3,617	4.0	July	120
of C.	March, 1881	3,767	be A	April	116
No. o	January, 1881	3,910	rop Male	January, 1881	114
ge th	April	3,930	ge I	September	115
erage No. of Con- ceptions.	September	4,021	More than the Average Proportion of Maies.	October	119
Avera	sge	4,138	Avera	ge	110,0
Se	October	4,214	9	May	110
Average tions.	August	4,259	Average Males.	June	110
sptt(c	May	4,300	t Ma	March, 1881	108
once	December	4,338	the of	August	107
than the Aver.	July	4,406	ess than the	December	107
More t	June	4,419	Prop	November	106
Mo	November	4,478	1	February, 1881	104

a See foot-note b to Table XXII., page 64.

b Excluding unknown month and unknown sex.
b Exceptions to the proposition that more than the average proportion of males were conceived in months in which less than the average number of conceptions occurred, and less than the average proportion of males in months in which more than the average number of conceptions occurred.

^{9-1881.}

TABLE XXIV.—Exhibiting by Months, according to the Returns, the Relation between the Total Number of Conceptions, and the Total Number of Deaths which occurred in the Months of the Years 1880 and 1881 in which were Conceived the Children Born during the Year ending December 31, 1881.

	DEATHS.			CONCEPTIONS. b	
Birth	s a of 1880 and 1881 of Conceptions of hs in 1881, arranged in order by Total ther of Deaths, the least first.	Number of Deaths, as Equal- ized.		s of 1880 and 1881 of Conceptions of s in 1881, in order by number, the dist.	
No.	January, 1981	1,046	9	April	2,850
	June	1,051	verage on-	May	2,644
than the Av. of Deaths.	May	1,145	of C	September	2,751
Do	February, 1881	1,171	ber opti	Junee	2,784
<u> </u>	March, 1881	1,292	N E E	August	2,831
Less	April	1,308	Less than the Avers Number of Con- ceptions.	July	2,84
Aver	age	1,375	Avera	ge	2,89
	October	1,445		February, 1981	2,890
ğ.	July	1,500	D AY	Octoberc	2,971
e t	November	1,506	100 E	January, 1981	3,02
than the Av.	December	1,588	More than the A No. of Con- ceptions.	March, 1881	3,12
More No.	September	1,701	Iore	December	3,25
X	August	1,748	×	Novembere	3,25

a Equalized to months of 30.44 days each, excluding unknown month.

b See foot-note b to table XXII., page 64.
c Exceptions to the proposition that there were more than an average number of conceptions in months in which less than an average number of deaths occurred, and less than an average number in months in which more than an average number of deaths occurred.

TABLE XXV.—Exhibiting the Relation, by Months, between the Number of Conceptions and the Number of Deaths, the Number of Deaths and the Number of Births Returned from which Conceptions are estimated, being Corrected as if Enumerated in Months of Occurrence, and Equalized to Months of uniform length.

	DEATHS.			Conceptions.4	
Birth ber o Corre occur	of 1880 and 1881 of Conceptions of is in 1881, arranged in order by num- of Deaths, the least first. Deaths teded as if enumerated in months of trence, and equalized to months of rm length.	of Deaths, as Cor- rectedand	Birt rect curi	as of 1880 and 1881 of Conceptions of his in 1881, estimated from Births Cor- ed as if enumerated in months of oc- ence, and equalized to months of uni- n length. Months arranged in order number, the least first.	of Concep tions, as Corrected
	January, 1881	1 1 1	Av.	February, 1881	3,631
nge pa.	June	1,790	the	March, 1881	3,782
Cat	February, 1881	1,929	Con	January, 1881	3,918
4 D	May	2,023	of	April	8,941
Less than the Average Number of Deaths.	March, 1881	2,069	Les No.	March, 1881c { January, 1881c April	4,032
ath	November	2,085			
Les	October	2,090	Aver	age	4,151
	[December	2,094	ge ns.	October	4,230
	ge	2,168	rera	August	4,974
Averag	60	2,100	Andee	May	4,321
and a	April	2,394	the Average Conceptions.	December	4,852
Av. No. of Deaths.	July	2,457	fore than umber of	Julye	4,412
re ti	September	2,569	ore	June	4,432
More Av.	August	2,752	NE	November	4,492

<sup>See foot-note
to Table XXII., page 64.
Excluding unknown month.
Exceptions to the proposition that there were more than an average number of conceptions in months in which less than an average number of deaths occurred, and less than an average number of conceptions in months in which more than an average number of deaths occurred.</sup>

TABLE XXVI.—Exhibiting by Months, the Relation between the Number of Deaths and the Proportion of each Sex Conceived during the same Months of the Years 1880 and 1881; the Number of Deaths and the Number of Births Returned from which Conceptions are estimated being Corrected as if Enumerated in Months of Occurrence, and Equalized to Months of uniform length.

	Р ватне.		Conceptions, a
Partie ber o recte occur	as of 1890 and 1881 of Conceptions of to in 1881, arranged in order by num- flyesting least first. Deaths Cor- d as if enumerated in months of remove, and equalized to months of term length.	Number of Deaths, as Corrected and Equatized.	Months of 1880 and 1881 of Conceptions of Births in 1881, estimated from Births Corrected as if enumerated in months of on- form length. Months arranged in order by number of Males to 189 Females, greatest first.
	January, 1881	1,786	; g 'July
4 .	June	1,790	EE: April
Averaga Deaths	February, 1881	1,929	January, 1861 114
(lee A 14 ()	May	1 2023	January, 1861 114 115 116 116 117 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118 118
3 \ 3 \	March. 1881	2,000	2 October 112
es than suber	2014mp41	2.85	
14	C#10341	2.00	.1747324
	_ [M-4m341	* 2.18M	May
			3 Jaze 130
7442	4 7	7 M2	4 March St
1_	Apri	2.3%	==== . August
1 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	74.7	LAST	107
	Sebeamjas	2,369	106
\$ 4 T	`	2.72	February, 382

a few fine-sucto > as Table XXII, page 6a.

- hing directs a sakenew month and it returned only proporting of males were concedy

- hing directs and sakenew month and it returned proporting of males were concedy

- average surface of deaths occurred, and then an average years of deaths occurred.

TABLE XXVII.—Exhibiting by Months, according to the Returns, the Relation between the Total Number of Deaths and the Proportion of each Sex Conceived during the same Month's of the Years 1880 and 1881, and Born during the Year ending December 31, 1881.

,	DEATHS.			Conceptions.	
Birth	of 1880 and 1881 of Conceptions of is in 1881, arranged in order by ber of Deaths, the least first.	Number of Deaths, as Equal- ized.		se of 1880 and 1881, in order by num- of Males to 100 Females, greatest	Number of Males to 100 Females.
Š.	January, 1881	1,046	e Av-	July	116
	June	1,051	n n n	April	112
24	May	1,145	ortic	January, 1881	112
Less than the Av. of Deaths.	February, 1881	1,171	More than the Proportion o	September	109
3 2 g	March, 1881	1,293	X X	Cotober	109
1	April	1,308	Avera	ge	107
Avera	go	1,375		(May	106
	October	3,445	1	Juno	106
er .	July	1,500	Less than the Av. Proportion of Males.	March, 1881	106
an the A Number eaths.	November	1,508	ortfo	Augustc	104
ore than the erage Numbor of Deaths.	December	1,588	1 2 2	November	104
More than erage Nu of Dea	September	1,701	Les	Decembere	104
×	! (August	1,748		 February, 1881	102

[■] Equalized to months of 30.44 days each, excluding unknown sex and unknown month.

▶ See foot-note ▶ to Table XXII., page 54.

■ Exceptions to the proposition that more than an average proportion of males were conceived in months in which less than an average number of deaths occurred, and less than an average proportion of males in months in which more than an average number of deaths occurred.

EXHIBIT N.—Births Returned as having occurred in Michigan during the Year 1881, by Sex, and by Months Equalized to 30.44 days each.

SEX.	YEAR,		MONTHS OF BIRTHS, EQUALIZED, 1881.												
SEA.	1881.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.	
Total	a 34,760	2,350	2,644	2,784	2,846	2,835	2,752	2,973	3,254	8,251	3,023	2,896	3,122	30	
Males	17,946	1,239	1,355	1,430	1,525	1,442	1,433	1,545	1,653	1,655	1,595	1,457	1,601	16	
Females	16,753	1,168	1,282	1,351	1,320	1,388	1,315	1,421	1,596	1,591	1,425	1,431	1,512	13	
Unknown.	61	3	7	3	1	5	4	7	5	5	3	8	9)	

[•] Five males and 6 females gained in equalizing, making the number shown in this Exhibit eleven more than the number returned.

EXHIBIT O.—Births Returned as having occurred in Michigan during the Year 1881, by Sex, and by Months Equalized to 30.44 days each, and by Months, the Excess of Males over Females, and the Number of Males to 100 Females. Unknown Sex and unknown month excluded.

	Year,												
SEX.	1881.	Jan.	Feb.	Mar.	April.	Мау.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Both Sexes	a 34,670	2,347	2,637	2,781	2,845	2,830	2,748	2,966	8,249	8,246	8,020	2,888	8,113
Males	17,930	1,239	1,355	1,430	1,525	1,442	1,433	1,545	1,658	1,655	1,595	1,457	1,601
Females	16,740	1,108	1,282	1,351	1,320	1,388	1,315	1,421	1,596	1,591	1,425	1,431	1,519
Excess of Males	1,190	131	* 73	79	205	54	118	124	57	64	170	.26	89
Males to 100 Fe- males	107	112	106	106	116	104	109	109	104	104	112	102	106

^{*} The number of births of each sex, and the total number of both sexes, as equalized, do not equal the number of births as returned, because of the loss of fractions, and the unequal numbers in the several months, modified by addition and subtraction. This table excludes hirths in unknown month and of unknown sex,—90. These (minus the 11 gained in equalizing), added to the number shown in this table, make the number as returned by registration officers (34,749).

EXHIBIT P.—Births Returned as having occurred in Michigan during the Year 1881. by Sex and by Months, Corrected for Omissions in Enumerating Equalized for Increase of Population during the Year covered by the Returns, and as thus corrected and Equalized for the several Months, Equalized for Months of 30.44 days each.

YEAR,				:	Mont	HS OF	BIRTH	r, 1881.				
1881.	Jan.	Feb.	Mar.	April.	May.	Junc.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
50,816	4,095	4,467	4,575	4,545	4,379	4,121	4,304	4,536	4,400	3,952	8,642	8,780
26,677 24,139	· 1	•										
	50,816 26,677	1881. Jan. 50,816 4,095 26,677 2,203	1891. Jan. Feb. 50,816 4,095 4,467 2,203 2,337	1891. Jan. Feb. Mar. 50,816 4,095 4,467 4,575 26,677 2,203 2,337 2,394	YEAR, 1891. Jan. Feb. Mar. April. 50,816 4,095 4,467 4,575 4,545 26,677 2,203 2,337 2,394 2,476	YEAR, 1891. Jan. Fcb. Mar. April. May. 50,816 4,095 4,467 4,575 4,545 4,379 26,677 2,203 2,337 2,394 2,476 2,269	YEAR, 1891. Jan. Feb. Mar. April. May. Junc. 50,816 4,095 4,467 4,575 4,545 4,379 4,121 26,677 2,203 2,337 2,394 2,476 2,269 2,181	YEAR, 1881. Jan. Feb. Mar. April. May. Junc. July. 50,816 4,095 4,467 4,575 4,545 4,379 4,121 4,304 26,677 2,203 2,337 2,394 2,476 2,263 2,181 2,273	YEAR, 1881. Jan. Feb. Mar. April. May. Junc. July. Aug. 50,816 4,095 4,467 4,575 4,545 4,379 4,121 4,304 4,536 26,677 2,203 2,337 2,394 2,476 2,269 2,181 2,273 2,349	1881. Jan. Feb. Mar. April. May. Junc. July. Aug. Sept. 50,816 4,095 4,467 4,575 4,545 4,379 4,121 4,304 4,536 4,400 26,677 2,203 2,337 2,394 2,476 2,269 2,181 2,273 2,349 2,271	YEAR, 1881. Jan. Feb. Mar. April. May. Junc. July. Aug. Sept. Oct. 50,816 4,095 4,467 4,575 4,545 4,379 4,121 4,304 4,556 4,400 3,952 26,677 2,203 2,337 2,394 2,478 2,269 2,181 2,273 2,349 2,271 2,109	YEAR, 1881. Jan. Feb. Mar. April. May. Junc. July. Aug. Sept. Oct. Nov. 50,816 4,095 4,467 4,575 4,545 4,379 4,121 4,304 4,556 4,400 3,952 3,642 26,677 2,203 2,837 2,394 2,476 2,269 2,181 2,273 2,349 2,271 2,109 1,856

TABLE XXVIII.—Exhibiting for the Total Births, for the Twins, Illegitimate, and Still-born Children Returned as having been Born in Michigan during the Year 1881; the Number of Boys to 100 Girls among such Children, distinguishing by Parent-Nativities, thus exhibiting the Influence of Parent-Nativity and of other Conditions upon the Sex of Children.

	Вівтня	, 1881.		Boys to 1	00 GIRLS.	
NATIVITY OF PARENTS.	Males.	Females.	Total Births.	Twin Children.	Illegiti- mates.	Still- births.
All Nativities	17,941	16,747	107.18	106.67	99,48	140.00
Both Parents Native	8,163	7,706	106.19	104.73		141,88
Both Parents Foreign	5,941	5,599	108.11	98.50		184.41
Foreign Father and Native Mother	2,136	1,937	110.27	115.38		124.00
Foreign Mother and Native Father	1,116	958	116,49	185.71		157.14
One or Both Unknown	565	547	103,29	100.00		163.64
Native	10,433	9,768	106,81	105.66	89.80	140.28
Mothers. Foreign	7, 133	6,611	107.90	106.76	122.78	187.04
Unknown	875	368	101.90		97.96	155.56
Native	9,394	8,755	107.30	112.02	75.00	146.92
Fathers Foreign	8,150	7,627	106.86	102.83	120,00	183.90
(Unknown	897	865	108,77	60.00	164.00	131,82
One or Both Native	11,644	10,817	107.65	111.50		144.94
One or Both Foreign	9,842	8,639	108.14	108.56		136.09
Both Unknown	207	186	111.20			116.67
Same Country	14,124	13,305	106.16	104.48		131.82
Different Countries	8,252	2,895	112 33	113.79		162.00
Same American State or Foreign Country Different American States or Foreign Countries				112.02 86,55		122.08 18 3.64

a Excluding unknown sex.



MARRIAGES, 1881.

The whole number of marriages whose returns were received at the State Department in 1881 was 14,847. In 1880 the number was 14,660. The marriage-rate in 1880, the number of marriages to every thousand of the population, was 8.62, or one marriage to every 116 persons in the State. The estimated population of the State for the year 1881 is 1,690,809; now leaving out the population of Isle Royal county, from which no returns of marriages were received for 1881, we have 1,690,752 as the estimated inhabitants of the State represented by the returns of marriages. In 1881, therefore, there was one marriage to every 114 persons in the State, and the number of marriages to every thousand of the population was 8.77. It is not probable that the returns of marriages for 1881 are complete; but the error in this respect is hardly greater in this year than in the previous years. Judging from the past, the returns for subsequent years will doubtless increase the number solemnized in 1881 by more than a thousand marriages.

The total number of marriages, and the average number for each of certain specified periods of time are as follows:

Total number of marriages	14,847.00
Average number per quarter	
Average number per month	
Average number per week	

As usual, the largest number of marriages occurred in the latter half of the year 1881; the largest number in any one quarter being 4,471 in the fourth quarter; the smallest quarterly total being 3,368 in the second quarter. The marriages in Table I. are corrected for additional returns up to May 11, 1883, that being the time of making the compilation for 1881.

TABLE I.—Marriages by Quarters of the Year, showing the Number and Per Cont. in each Quarter of the Year for each of the Years 1876 to 1881, inclusive, Corrected for Additional Returns, up to May 11, 1883.

Totals, and Montes	1876.		1877.		1878.		1879.		1890.		1881.	
WITH WHICH QUARTERS END.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent
Totals	11,893	100.00	11,844	100.00	12,829	100.00	13,816	100.00	14,660	100,00	14,847	100.0
March	2,711	22.80	2,708	22,86	2,989	23.50	3,093	22.39	3,800	22.51	3,876	22.7
June	2,639	22.19	2,547	21.50	2,685	20.93	2,878	20.83	3,199	21.82	3,368	22.6
September	2,863	24.07	2,829	23.89	8,022	28.55	3,255	28.56	8,561	24.29	3,680	24.4
December	8,674	30,89	3,748	31.65	4, 123	82.14	4,586	83, 19	4,597	31.36	4,473	80.1
Unknown	6	.05	12	.10	10	.08	4	.03	3	.02	2	
Average	2,973	25.00	2,981	25.00	3,207	25.00	3,454	25.00	3,665	25,00	3,712	25.6

[·] Including marriages in unknown quarter of the year.

Exhibit A differs from Table I., as it shows the number of marriages as originally returned, compiled, and published for each of the years 1876-1881, the additional returns not being added as in Table I. A comparison of the exhibit with the table will show how frequently the law is violated in this State.

EXHIBIT A.—Marriages by Quarters of the Year, showing number and Per Cent. in each Quarter of the Year, for each of the Years 1876 to 1881, inclusive, as Originally Returned and published in Reports.

Totals, and Months	1876.		1877.		1878.		1879.		1880.		1881.	
WITH WHICH QUARTERS END.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.
Totals	10,858	100.00	11,009	100.00	12,221	100.00	13,225	100.00	14,149	100.00	14,847	100.0
March	2,599	23.94	2,638	23.92	2,901	23.74	3,039	22.98	8,261	23.05	3,376	22.7
June	2,474	22.79	2,422	22.00	2,606	21.32	2,806	21.22	3, 151	22.27	3,368	22.0
September	2,677	24.65	2,646	24.03	2,906	23.78	8, 133	23.69	3,472	24.54	3,630	24.4
December	3, 105	28.60	3,298	29.96	8,798	81.08	4,248	32,08	4,262	80.12	4,471	80.1
Unknown	8	.03	10	.09	10	.08	4	.03	8	.02	2	.0
Averages	2,715	25.00	2,752	25.00	3,055	25.00	8,306	25.00	3,537	25.00	8,712	25.0

⁻ The number in unknown quarter of year included.

Table II. shows, by months, the number and per cent. of marriages returned as having been solemnized in this State during the years 1878-1881. The months are arranged in order, those having the greatest number are placed first. In 1881 the largest number in any one month was 1,557 in October; the smallest, 1,042, in August. The smallest monthly total is usually found in the months of June or August.

TABLE II.—Marriages by Months, Arranged in Order by Number, Months having the greatest number first, for the Years 1878 to 1881, inclusive, Carrected, for additional returns, up to May 11, 1883.

		1878.			1879.			1880.		1881.			
4	Монтив.	Num- ber,	Per Ct. of Total.	MONTHS.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.	MONTHS.	Num- ber.	PerCi of Total	
	Total	19,820	100,00	Total	13,816	100.00	Total	14,660	100.00	Total	14,847	100,0	
1	Oot	1,401	10,02	Oot,	1,871	11.37	Nov	1,589	10.84	Oct	1,557	10.4	
1	Deck	1,393	10,86	Nov	1,538	11.13	Dec	1,549	10.57	Nov	1,496	10.00	
	Nov	1,320	10,36	Dec	1,477	10,69	Oct	1,459	9.95	Dec	1,418	9.80	
4	Nept	1,185	2.24	8opt	1,267	9.17	Sept	1,373	9.37	Sept	1,841	9.0	
B	Jnn	1,000	R,49	Jan	1,077	7.80	Jan	1,167	7.96	July	1,247	8.4	
•	MAT	1,019	7.74	July	1,046	7.72	April	1,142	7.79	Jan	1,162	7.8	
?	May	1001	7.49	Mar	1,029	7.45	July	1,132	7.72	May	1,162	7.8	
¥	April .	241	7.3%	May	1,016	7,35	Mar	1,084	7.39	Mar,	1,155	7.78	
•	July	\$40	7.33	reb	9 87	7 14	'Aug	1,056	7.20	April	1,117	7.55	
0	Aug.	1443	6,99	Apr	963	7.12	Feb	1,049	7.16	June	1,089	7.85	
١	\$'#h	144	6.87	Aug	\$55	6.67	May	1,039	7.09	Feb	1,059	7.12	
٠	June	***	KILL	June	879	K.36	June	1,013	6.94	Aug	1,042	7.0	
	l'wh .	W	,141	l'nk.	4	<i>t</i> n.	Unk	, 3	.02	Tak	2	.0	
	1101,340	1,144	4.83	Aver'ge .	1,131	22.28	Aver'ge .	1,222	8.33	Aver'ge =	1,237	8.8	

[.] Includes those for unknown month.

In Nyhibit B the number of marriages, as returned for each of the years 187; 1881, are corrected for additional returns up to May 11, 1883, and then equalised to months of uniform length. By comparing the first line of the exhibit with the fourth line for each of the years, the changes can be seen which are made by equalising the months to uniform length. Exhibit B also shows the relations, which the number of marriages in the different months of the years, hear to each other, and also the months most preferred for maximum by Michigan people.



inclusive,	
1881,	s each.
2	ave
1877	0.44 d
Years	8 of 30
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during	red to A
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mnised	1, 1883
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been S	o May
ving deen S.	up to May
is having deen S	urns, up to May.
ed as having deen S	returns, up to May.
Returned as having deen S	iditional returns, up to May.
integes Returned as having been Solemnised in Michigan during the Years 1877 to 1881, inclusive	for additional returns, up to May

						i								Ì
- U-					•		Mo	MONTES.						
	YEAR, TOTAL.	Jap	Feb.	Mar.	Apr.	May.	June.	July. 1	Aug. 8	Bept.	Oct.	Nov.	Dec.	Unk.
berreed	j 11,844	4 975	861	88	843	\$3	Ş	0 F6	285	1,104	1,248	1,227	1,278	22
Aregine by Which the months should be in-		. 55	+24	8.	+.44	8 6.	7.	25	86	77.+	90	77.+	8	
	+1	2 -18	+74	-16	+ 14	+16	+11	-17	7	+ 16	şi	20 +	នុ	
Marrisges, equalized to months of uniform length	11,851	1 957	925	88	926	8	25	828	12	1,120	<u>8</u>	1,245	1,33	22
Marriages as returned	12,699	1,069	88	1,019	246	8	E	- 	88	1, 185	달,	1,339	1,393	ខ្ព
creased or dinfinished to equalize them to uniform length.		8 .	+2.44	8.	+.44	85.	+.4	96	8.	+.44	- 28	#:#	8.	-
tringes should be increased or al- tem to months of uniform length	-	<u>۾</u>	+11	-18	+ 14	-17	=	-17	-18	+ 17	ង់	+ 19	នុ	-
Marriages, equalized to months of uniform length	12,829	1,069	928	1,00,	38	3	88	%	88	1,202,	3,8,1	348,	1,368	2
	13,816	1,077	987	1,029	88	1,016	879	1,066	왏	1,267	1,571	1,538	1,477	•
Creased or diminished to equalize them to uniform length.		38	+2.44	8.	4.4	35	4.44	8,	96	4.4	99.	#.+	8	Ī
minished to equalize them to months of uniform length.	*	8 -19	98+	-19	+ 14	-18	+ 13	-19	-17	+ 19	\$ 7	+ 23	-97	
Marriages, equalized to months of uniform length	13,824	1,068	1,073	1,010	168	8	88	1,047	8	1,280	2,5	1,561	1,438	-
Marriages as returned	14,660	0 1,167	1,049	1,084	1,142	1,039	1,018	1,182	3,056	1,373	1,459	1,589	1,549	s
. • :		58	+1.44	.68	1 .+	28	4.4	86.	.58	+.44	56	+.4	56	1
	- P84	-5	+52	કૃ	+ 17	-19	+ 15	ę	-19	+ 30	-38	+ 53	F	
Marriages, equalized to months of uniform length	14,634	1,146	1,101	1,064	1,139	1,020	1,033	1,112	1,037	1,393	1,433	1,612	1,521	8
Marriages as returned	14,847	7 1,162	1,069	1,165	1,117	1,162	1,069	1,247	1,043	1,341	1,557	1,496	1,418	61
Creased or diminished to equalize them to uniform length.			+2.44	8.	7.+	8	+.4	, 88	8.	#:4	56	+.44	96	
minished to equalize them to months of uniform length	2+	7 -21	\$6 +	-21	+ 16	-51	+ 16	£4-	-19	+ 20	Ŗ	+ 55	-50	-
Marriagos, equalized to months of uniform length	14,854	1,14	1,151	1,134	1,138	1,14	1,106	1,224	1,023	1,381	1,639	1,618	38,	67
											İ		١	١

TABLE III.—Distinguishing, by Counties and by Months, the number of Marriages returned as having been solemnized in Michigan during the Year ending December 31, 1881.

STATE	Year,						Mon	тне, 18	81.					
AND COUNTIES.	1881.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Uni
STATE	14,847	1,162	1,059	1,155	1,117	1,162	1,069	1,247	1,042	1,341	1,557	1,496	1,418	
Alcona	14	1	1		1	2	2				2	1	4	
Allegan	372	18	25	44	35	80	21	30	26	37	25	87	44	ļ
Alpena	100		1	8	5	7	11	13	10	18	9	13	10	
Antrim	36	2	2	4	8	4	1	5	2	1	8	6	8	
Baraga	16		2		1		3	1	2	4		2	1	¦
Barry	199	15	15	15	18	12	11	13	19	13	23	18	82	ļ
Bay	302	17	24	14	16	26	26	38	25	25	28	82	81	ļ
Benzie	43		2	1	3	6	5	2		5	8	₹ 5	6	١
Berrien	562	41	33	37	45	37	37	53	38	49	66	54	72	l
Branch	251	35	14	19	23	18	20	26	17	24	36	13	6	
Calhoun	329	24	28	32	23	26	20	14	14	, 29	36	41	41	ł
Cass	251	15	17	18	16	22	15	21	20	23	29	21	84	
Charlevoix	54	3	2	4	4	5	1		3	4	10	6	12	
Cheboygan	73	5	9	8	1	8	8	5	8	8	4	10	4	
Chippewa	52	1	5	2	3	5	5	9	2	10	1	6	8	
Clare	42	1	5	8	4		3	4	3	2	3	6	8	١
Clinton	236	13	18	12	18	23	12	23	12	21	39	92	23	١
Crawford	11	2		1	l .	 .		2	1	2	2	l		I
Delta	72	10	4	2	7	4	5	9	5	10	5	8	8	1
Eaton	240	20	19	20		8	18	1	16	30	25		27	1
Emmet	64	8	1	7		5	8	7	4	5	7	9	4	1
Genesee	329	23	28	30	L	22		I	17	32	L .		39	
Gladwin	4	1		1				2	1					
Gr. Traverse	59	5	3	4		11	5	1	2	6	4	2	1	1
Gratiot	197	15	6	10	•	18	1	1	ı			1	21	1
Hillsdale	346	88	18	38		21	22		25			28	85	1
Houghton	196	14	17	8		17		_		15		1	11	
Huron	134	17	8	9		11			9	1			11	1
Ingham	294	27	25	28	1 -	16			24		_	1	30	1
Ionia	298	20	20	23		19					1		21	1
Icaco	110	12	5	4	1	9			1		,	1	13	1
Isabella	99	7	4	6		8	1 -					, -	8	1
Isle Royal	i	١.	"	١ ٠	1	1	ľ	1 .~	١	*		_	ľ	1.
Jackson	421	84	81	28	87	18	32	25	22	43	51	45	58	.["
Kalamazoo	276	28	1	1		1	1	1				1		1
Kalkaska	81	4	ľ		1				•	5		1	1	1
			1		1	1	1	1	1	Į.	1 -	1	30	J.
Kent	646	53	ı	,	1	1	1	1		1		1	90	.1-
Keweenaw	31	1 8	1 .	1 -	1	5	1		I.	-	9		1	.1
Lake	21			1	_	19	1	1		1	-		10	
Lapeer	249	27		ı	1		1			1			7	1
Leelanaw	46	2			_		1	1		1 .	1 -	-	1	.1
Lenawee	1	49	1	1		•	•					1	1	. 1
Livingston	166	15	1	•	1				1				21	. 1
.Mackinac	38	9	1	9	8	2	: e	8 8	1	8	1	5	4	4 -

MARRIAGES BY COUNTIES, BY MONTHS.

TABLE III.—CONTINUED.—Marriages by Counties, by Months.

COUNTIES.	Year,						Mon	тиз, 18	81.					
COUNTIES.	1881.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk
Macomb	241	16	80	23	17	30	13	13	8	22	22	28	19	
Manistee	113	3	6	7	13	8	12	7	5	18	11	22	. 1	
Manitou	6					1	8					2		
Marquette	205	14	11	14	19	23	13	81	16	15	19	19	11	
Mason	101	5	8	8	8	8	11	7	6	6	10	10	14	l
Mecosta	148	16	10	a	18	9	10	17	17	6	15	4	17	
Menominee	158	5	7	7	9	13	12	18	18	9	24	23	18	
Midland	59	1	4	7	4	6	4	1	8	3	5	4	12	ļ
Missaukee	8			1			1		1	2	2		1	ļ
Monroe	845	26	87	21	85	83	19	27	20	29	28	37	84	ļ
Montcalm	236	17	20	15	20	20	14	22	12	18	24	27	27	Ĭ
Montmorency	1						1	•]
Muskegon	824	15	22	21	30	27	28	84	37	21	24	25	40	i
Newaygo	112	6	8	8	4	11	10	18	11	12	6	13	10	
Oakland	807	26	19	46	13	25	15	17	22	22	28	35	39	
Oceana	97	6	11	4	8	7	5	9	4	14	ម	4	17	 -
Ogemaw	14		4		1	1			2		3	2	1	
Ontonagon	15			9		2	3	1	3	1	3	1	1	ļ
Osceola	125	9	7	9	j 8	9	8	18	8	12	16	11	10	ļ
Oscoda	3				1			2						
Otsego	20		1			3	1	3		1	4	2	5	
Ottawa	317	33	18	81	80	29	27	25	22	23	81	23	30	ļ
Presque I'l	33	4	5			j 1	2	2	1	4	3	9	2	
Roscommon.	13		2	1			1		3	8	1		2	¦
Saginaw	570	44	28		45	54	51	70	31	55	59	55	88	
Sanilac	125	8	7	17	13	6	7	6	13	14	10	14	10	
Schoolcraft.	6		. 2			1				1	1	1		
Shiawassee	206	21	15	21	12	16	12	14	18	14	21	28	24	
St. Clair	369	25	25	19				26	31	41	45	29	86	
St. Joseph	364	24						23	24	33	57	29	47	
Tuscols	199	21	12	12	18	18	12	15	5	27	21	21	17	1
Van Buren	249	25	19			21	16	21	19	21	28	18	22	
Washtenaw.	822	23	81	1					14	23	1		30	
Wayne	1,558	187	118			135	135	121	121	120	173			·
Wexford	67	9	4	8	7	2	8	2	2	8	11	7	4	l

COLOR OF PERSONS MARRIED.

Tables IV. and V. contain some important data in regard to the number of marriages among the different races in Michigan. It will be seen that over 98 per cent. of all persons returned as having been married in Michigan in 1881 were white persons. The greatest marriage-rate is also among the Whites and the smallest among the Indians.

Table V. shows the facts concerning the color of persons married in 1881 in each of the counties of the State.

TABLE IV.—Exhibiting, by Color and by Sex, the Number of Marriages, and the Number and Per Cent. of Total Number of Persons Married in Michigan during the Year 1881, according to the Returns; and the Per Cent. of Persons Married in 1881 to Population in 1880.

		Popula- tion June l, 1880, Rep-	Number		MARRIED,	Per Cent. of Persons Married in 1881 to	Number of Per- sons who
COLOR,—1881.	SEX.	resented by Mar- riages in 1861.	Marriages, 1881.	Number.	Per Cent. of Total.	Popula- tion June 1, 1880, by Sex and Color.	Married those of another Color.
	Total	1,636,882	14,847	29,694	100.00	1.81	48
All Colors	Males	a 862,324		14,847	50.00	1.72	94
	Females	774,558		14,847	50.00	1.92	. 94
	Total	1,614,505	14,649	29,302	98,68	1.81	17
White	Males	850,765		14,656	98.71	1.72	11
j :	Females	763,740		14,646	98,65	1.92	6
	Total		91	176	.59		5
Black	Males			91	.61		7
j	Females	i		85	.57		1
	Total		42	88	.39		8
Mulatto	Males	1		42	.28		2
1	Females			46	.31		6
	Total	7,249	35	77	.26	1.06	15
Indian	Males	8,696		35	.24	.95	4
	Females	3,558		42	.28	1.18	11
	Total		30	51	.17		
One or Both Unknown.	Males			28	.16		
	Females			28	.19		
	Total	15,100	183	264	,89	1.75	16
Black and Mulatto	Males	7,835		183	.90	1.69	9
(Females	7,965		131	.88	1.80	7

[·] Includes 28 Asiatics.

TABLE V.—Exhibiting for the State and Counties, the Number of Marriages Returned as having been Solemnized in Michigan during the Year 1881, the Number of Couples of White Persons, and by Color the Number of Marriages where one or both parties were other than White.

• •		Cor	OR OF PI	ersons Ma	RRIED, 18	81, STATE	BY COUP	LES.
STATE AND COUNTIES.	Marriages, 1881.	White.	Black.	Mulatto.	Indian.	FRMALE UNK.	MALE UNK.	Both Unknow
						Male White.	Female White.	
State	14,847	a 14,649	b 91	c 42	d 35	7	2	2
Alcona	14	14						
Allegan	872	309	• 3					
Alpena	100	100		•••••				
Antrim	86	35			1			
Baraga	16	f 13	,		3-			ļ
Barry	199	198				1		
Bay	302	298	1		3			
Benzie	4.3	42		1			•••••	
Berrien	562	553	E 4	8				
Branch	251	250		·				
Calhoun	329	824	a 2	1			1	
Cass	251	236	13	11	J 1			
Obarlevoix	54	54						
Cheboygan	78	k 72	i	•	11	 		
Chippewa	52	k 52						
Olare	42	42						
Olinton	236	236						
Drawford	11	11						
Delta	72	71			1			
Eaton	240	240						
Emmet	64	m 58			n 6			•••••
3enesee	829	827	2					
Giadwin	4	4						<i></i>
Grand Traverse	59	59					l	

^{*} Includes I female % Indian, 6 females White and Indian, 4 females Indian, and I male Spanish.

* Includes 7 couples "African," 12 couples and Indian, 2 females White and Indian.

* Olored," 5 females Mulatto, 1 female "Octoroon," and 1 female White.

* Includes 1 couple, male "Light," female "Octoroon," and 1 female Mulatto.

* Brunette," 1 female Black, 1 female White, 1 couple, male % White, female % Black, and 1 couple, male % White, female % Black, and 1 couple "African," and 1 couple "Colored."

* I female Mulatto.

* I female Mulatto.

* I female Mulatto.

* I female Mulatto.

* I female White and Indian.

* I couple white and Indian.

* I couple white and Indian.

* I couple white and Indian.

* I couple white and Indian.

* I couple, male white and Indian, female white and Indian, female Indian, female White.

* I female White and Indian.

* I couple white and Indian.

* I couple, male white and Indian, female white and Indian, female Indian, female White, and I couple, male White and Indian, female Indian, female White.

* I female Mulatto.

* I female Mulatto.

* I female Mulatto.

* I female Mulatto.

* I female Mulatto.

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* I female Mulatto.

* I female Mulatto.

* I female Mulatto.

* I female Mulatto.

* I female Mulatto.

* I female

TABLE V.—CONTINUED.—Marriages in 1881, by Counties, by Color.

		Col	or of Pi	ersons Ma	RRIED, 18	S1, STATE	BY COUP	LES.
COUNTIES.	Marriages, 1891.	White.	Black.	Mulatto.	Indian.	FRMALE UNK. Male White.	MALE UNK. Female White.	Both Unknown.
Gratiot	197	196	1					
Hillsdale	846	345	1			•		
Houghton	196	195						1
Huron	184	134						
Ingham	294	293	1					
Ionia	298	295				2		1
Iosco	110	108			1		1	
Isabella	99	98	-		1			·
Isle Royal	- -							
Jackson	421	412	b 7	۰ 1		·		1
Kalamazoo	276	260	b 3	2				11
Kalkaska	31	31						
Kent	646	4 63 9	• 8	3		1		
Keweenaw	31	31	·····					
Lake	21	21						
Lapeer	249	f 249	ļ			•••••		
Leelanaw	46	41			g 5			•
Lenawee	509	507	• 1	h 1			·	
Livingston	166	164	2					
Mackinac	38	1 34			J 4			
Macomb	241	240	1		·			
Manistee	113	113						
Manitou	6	6						
Marquette	205	205						
Mason	101	100	1			•••••		
Mecosta	143	141	1	1				
Menominee	158	159						
Midland	59	59						
Missaukee	8	8	ļ			·····	•	
Monroe	345	843	2					
Montcalm	236	234	1				•••••	1
Montmorency	1	1	 					

^{*} No returns of marriages from county clerk.

* I couple "African."

* I couple, male "Light," female "Brunette."

* I male "Spanish."

* I female Mulatto.

* I female Mulatto.

* I female Mulatto.

* I female Mulatto.

* I female Mulatto.

* I female Mulatto.

* I female Mulatto.

* White and Indian, female White, and I couple, male Indian, female White, and I couple, male Indian, female White.

TABLE V.—CONTINUED.—Marriages in 1881, by Counties, by Color.

		Cor	OR OF PE	RSONS MAD	RIED, 18	81, STATED	BY COUPL	.E8.
COUNTIES.	Marriages, 1881.	White.	Black.	Mulatto.	Indian.	FEMALE UNK.	MALE UNK.	Both
		w пис.	DIRCK.			Male White.	Female White.	Unknown.
Muskegon	324	324						
Newaygo	112	111			1			
Oakland	307	305	1	1				
Oceana	97	93	2		2			
Ogemaw	14	14						
Ontonagon	15	15						
Osceola	125	125						
Oscoda	8	8						
Otsego	20	20						
Ottawa	317	317					••••	
Presque Isle	88	88						
Roscommon	13	12		a 1			•	
Saginaw	570	567		2	1			
Sanilac	125	125				•••••		
Schoolcraft	6	ъ 6				••••	•	
Shiawassee	206	206						
St. Clair	369	36 8			1			
St. Joseph	364	3 61	c 2	1				
Tuscola	199	199	 					
Van Buren	249	237	4.4	5	8			
Washtenaw	822	316	- 4	• 2				
Wayne	1,555	1,509	f 38	6				2
Wexford	67	64		ļ		3		

11-1881.

^{*1} female White.

*1 female Mulato.

*1 female Mulatto.

*1 female Mulatto.

*1 couple, male % White, female % Black, and 1 couple, male % Black, female % White.

*2 couples "African," and 10 couples "Coldenale "Octoroon," and 1 female Mulatto.

NATIVITY OF PERSONS MARRIED.

Some important items of interest concerning the nativity of the persons married in this State in 1881 will be found in Exhibit 1 and Table VI.

Exhibit 1 shows that 68.12 per cent. of the males, and 72.30 per cent. of the females married in 1881 were native-born; also that 30.96 per cent. of the males and 26.20 per cent. of the females were foreign-born. This is a smaller proportion of the native-born for both males and females, and a larger proportion of foreign-born for both males and females than in 1880.

EXHIBIT 1.—By Nativity, the Number and Per Cent. of Brides and of Bridegrooms Returned as having been married in Michigan during the Year ending December 31, 1881, and by number, the manner of their Union by Nativity.

В	RIDES, 18	81.		
Native.	Foreign.	Un- known.	Total of each Na- tivity, and of all Nativi- ties.	Per Cent. of each Nativi- ty.
8,804	1,214	96	10,114	68.12
1,894	2,672	31	4,597	30.96
37	4	95	136	.92
10,735	3,890	222	14,847	100,00
	8,804 1,894 37	Native. Foreign. 8,804 1,214 1,894 2,672 37 4 10,735 3,890	8,804 1,214 96 1,894 2,672 31 37 4 95 10,735 3,890 222	Native. Foreign. Un- Native. Foreign. Un- known. Total of each Nativity, and of all Nativities. 8,804 1,214 96 10,114 1,894 2,672 31 4,597 37 4 95 136 10,735 3,890 222 14,847

Table VI. shows the marriage-rate among the native and foreign-born inhabitants of Michigan for the year 1881. It will be seen that the marriagerate is much greater among the foreign-born than among the native. It should be remembered, however, that this showing is based upon the number of marriages in 1881 and the number of inhabitants in 1880; and also that the statement includes persons at all ages, when it is a well-known fact that there are more children under the marriageable age among the native-born than among the foreign-born.

The number of marriages in which both parties were born in the United States was 8,804, or 59.30 per cent. of all; this is a smaller proportion of this class than in 1880. The number of marriages in which both parties were foreign-born was 2,672, or 18 per cent. of all; this is a larger proportion than

in 1880.

TABLE VI.—Exhibiting, by Sex, the Nativity of Persons returned as having been Married in Michigan during the Year 1881.

	Bern		POPULAT	rion Jun	E 1, 1880,		PERS	ONS MA	BRIED	, 1881.	
NATIVITY.		SI.	KEPRES	GES IN 1	-	2	Number		Mary	ent. of P ried in plation of vity Jur	1881 to
	Number.	Per Cent. of Total.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
Total	14,847	100.00	1,636,882	862,324	774,558	29,694	14,847	14,847	1.81	1.72	1.99
Native	8,804	59.30	1,248,395	642,913	605,482	20,849	10,114	10,735	1.67	1.57	1.77
Foreign Male and Na- tive Female	2,672 1,894			219,411	169,076	8,487	4,597	3,890	2.18	2.10	2.30
Foreign Female and Native Male	1,214		1000								
Unknown	a 263	1.77				358	138	222			
One or Both Native	11,912	80.23									
One or Both Foreign	5,780	38,93									

[.] Includes cases where one or both are unknown.

AGES OF PERSONS MARRIED.

Exhibit C shows, by nativity, the average age of males and females married in Michigan in each of the years 1878, 1879, 1880, and 1881. It is seen that the average age of the native-born is a little less than the average age for all nativities, while the average age of the foreign-born is a little more than the average age for all nativities. The average age of the males is about five years greater than the average age of the females.

EXHIBIT C.—By Nativity, the Average Age of Persons Married in Michigan in 1878–1881, inclusive, according to the Returns.

	18	78.	18	79.	18	80.	18	81.
NATIVITY OF PERSONS MARRIED.	Males.	Fe- males.	Males.	Fe- males.	Males.	Fe- males.	Males.	Fe- males.
All nativities	28.01	22,91	28.01	23.00	28.08	23.20	28.09	23.20
Native	27.46	22.54	27.48	22,65	27,59	22.82	27,49	22,83
Foreign	29.51	24.28	29.42	24.28	29.29	24.42	29.33	24.20
Unknown	28.82	23.62	28.00	24.33	28.31	23.37	31.43	23,83

Table VII. shows the number and proportion of males and females married in Michigan in 1881 at each period of age. The largest proportion of both males and females in 1881 was for those at the ages of 21 to 25 years. It also shows that 66.52 per cent. of the males who were married in Michigan in 1881 were between the ages of 21 and 30 years; and 42.75 per cent. of the females were married between those ages. The proportion of the sexes is nearer equal at this period of life than at any other period.

TABLE VII.—By Sex, and Periods of Age, the Number and Per Cent. of Total Number of Persons Married at each Age and Period of Age, during the Year 1881; and the Per Cent. of each Sex at each Age and Period of Age to the Total Number of both Sexes.

				MARRIAGES, 7	1881.		
AGES IN YEARS	Total		MALES.			FEMALES	
AND PERIODS.	Number of Persons Married.	Number Married.	Per Cent. of Total Marri- ages.	Per Cent. of Persons Married at Correspond- ing Ages.	Number Married.	Per Cent. of Total Marri- nges.	Per Cent. o Persons Married at Correspond ing Ages.
All ages	29,694	14,847	100,00	50,00	14,847	100.00	50,00
13	1				1	.01	100.00
14	29				29	.20	100,00
15	121				121	.81	100,00
16	751				751	5.06	100,00
17	1,022	12	.08	1.17	1,010	6.80	98.83
18	1,620	86	.58	5.31	1,534	10.33	94.69
19	1,748	244	1.64	13.96	1,504	10.13	86.04
20	2,173	594	4.00	27.34	1,579	10.64	72.06
21 to 25	9,874	5,416	36.48	54.85	4,458	30.03	45.15
25 to 80	6,349	4,460	30.04	70.25	1,889	12.72	29.75
30 to 35	2,458	1,757	11.83	71.48	701	4.72	28,52
35 to 40	1,230	796	5,36	64.72	434	2,92	35.28
40 to 45	739	467	3.15	63.19	272	1.83	36.81
45 to 50	510	306	2.06	60.00	204	1.37	40.00
50 to 55	334	232	1.56	69,46	102	.69	30,54
55 to 60	207	139	.94	67.15	68	.46	32.85
60 to 65	174	118	.79	67.82	56	.38	32.18
65 to 70	98	80	.54	81.63	18	.12	18,37
70 to 75	46	41	,28	89.13	5	.03	10,87
75 to 80	20	19	.18	95.00	1	.01	5,00
80 and over	3	3	.02	100.00			
Unknown	187	77	.52	41.18	110	.74	58,82
Under 15	30				30	,20	100.0
15 to 20	5,262	342	2.30	6,50	4,920	33,14	93.50

EXHIBIT 2.—Number of Persons Returned as having been Married in Michigan in 1881, by Sex, and Excess of the Sexes, by Age in Years.

3.6	PERSONS	MARRIEI	IN 1881.	Exc	ESS.	54	PERSONS	MARRIEI	IN 1881.	Exc	E85.
Ages in Years,	Total.	Males.	Fe- male	Males.	Fe- male .	Ages in Years.	Total.	Males.	Fe- males.	Males.	Fe- males.
All ages	29,694	14,847	14,847			47	84	46	38	8	
_	-	_		_		48	90	51	39	12	
13	1		1		1	49	91	53	38	15	
14	29		29		29	50	102	71	31	40	
15	121		121		121	51	65	44	21	23	
16	751		751		751	52	54	34	20	14	
17	1,022	12	1,010		998	53	65	49	16	33	
18	1,620	86	1,534		1,448	54	48	34	14	20	
19	1,748	244	1,504		1,260	55	52	87	15	22	
20	2,173	594	1,579		985	56	48	29	19	10	
21	2,597	1,240	1,357		117	57	42	30	12	18	
22	2,615	1,345	1,270	75		58	38	22	16	6	
23	2,546	1,500	1,046	454		59	27	21	6	15	
24	2,116	1,331	785	546		60	59	44	15	29	
25	1,722	1,165	557	608		61	27	16	11	5	
26	1,536	1,061	475	586		62	40	25	15	10	
27	1,222	864	358	506		63	24	17	7	10	
28	J,104	815	289	526	********	64	24	16	8	8	
29	765	555	210	345		65	22	20	2	18	
30	787	567	220	347		66	27	19	8	11	
81	477	353	124	229		67	15	14	1	13	
32	478	350	128	222		68	17	14	3	11	
33	376	256	120	136		69	17	13	4	9	
34	340	231	109	122		70	16	14	2	12	
35	311	207	104	103		71	3	2	1	1	
36	270	175	95	80		72	9	7	2	5	
37	216	139	77	62		73	9	9		9	
38	- 253	167	86	81		74	9	9		9	
39	180	108	72	36		75	11	11		11	
40	223	147	76	71		76	5	4	1	3	-
41	137	94	43	51		77	4	4		4	
42	158	97	61	36		80	1	1		1	
43	113	63	50	13		81	1	1		1	
44	10	60	42	24		84	1	1		1	
45	142	83	59	24		Unk	187	77	110		3
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schibiting for the State and Counties, by Sex, the Nativity and Age in Periods of Years, of Persons

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emb	YOY .	40	to	45.	739 467 272	1	60	61	00	-	800	0.4	91-	178	80	
Dec	RENT	20	to	40.	1,230 796 434	01	10.23	7		04	104	25	01	82	54	88
ding	AT DIFFERENT AGES,	30	10	55.	2,458 1,757 701	-	19	P-M	-	20 04	20	4=	F-00	202	200	252
ar en	GES AT	52	01	30.	6,849 4,460 1,889	C1	512	135	15	Ø 64	62	1113	30	154	288	200
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2000	158	800	40.4	15	67	101	22.8	20	14 6	28	61	13	171	91	58	16	I male
119	18	88	16	16	114	910	31.0	109	52.53	152	1	27	88	162	87	22	. 3 couples and I male "America."
702	24	61.13	27	20	102	10	23	14 81	24	120	61	122	100	125	59	500	coupl
Males	Males	Males	Males	Males	Males	Males	Males	Males	Males	Males	Males	Males	Males	Males	Males Females.	Males.	80
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Cass	Charlevolx	Cheboygan	Chippewa	Olare	Clinton	Crawford	Delta	Eaton	Emmet	Genesee	Gladwin	Gr. Traverse	Gratiot	Hillsdale	Houghton	Huron	. I female "America,"

TABLE VIII.-CONTINUED.-Marriages by Counties, Nativity, and Periods of Age.

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Аок	9	10	45.	12	10 00	01	211	21	17	I	14	11	1	1-4	
HENT	33	to	40.	16	17 8	01 01	01-41	29	21	61	38	1	1	69	
DIFFE	30	to	35.	22 = 123	31	17	10	555	30	2	2000	0	10.01	93	00
GES AT	53	to	30.	96	31	82	85 00	103	81	500	906	1	4-	75	13
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IS MAR	For-	males,	tive Males.	CI	55	11	11	27	14	4	55	01	04	56	00
Person	For- eign			98	67	15	=	75	80	60	88	15		43	п
ITT OF PERSONS MARRIED, 1881, STATED BY COUPLES.	elgn.			19	6	53	11	139	71	01	145	=	-	46	4
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	Couple 1881.	ted,	Numb	202	208	110	88	421	276	31	979	31	15	849	46
NUT.	_	COUNTIES.		Ingham	Ionia	Iosco	Isabella	Jackson	Kalamazoo	Kalkaska	Kent	Keweenaw.	Lake	Lapeer	Leelanaw

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84	830	00 01	817	16	11	31	17	12	65 65	10 00	1	49	22		188	10	erica.
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198	74	21	102	58	10.01	75	48	52	69	54	0101	141	104	1	119	88	b I couple "America."
140	48	200	600	80 83	74	712	80	612	46	505	- 10	8 511	98	11	114	00 10	11
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Males.	Males	Males	MalesFemales	Males	Males	Males	Males	Males	Males	Males	Males	Males	MalesFemales_	Males	Males	Males	
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Lenawee	Livingston	Mackinac	Масошь	Manistee	Manitou	Marquette	Mason	Mecosta	Menominee.	Midland	Missaukee	Monroe	Montcalm	Montmorency	Muskegon	Newaygo	

TABLE VIII. -Continued. - Marriages by Counties, Nativity, and Periods of Age.

1		TIMO	плип	1 29	11	11	11	:	11	11	-:	11	11	0101	10	
-	-		uu 08	111	11	11	11	11	11	11	11	11	11	11	11	TI
, 188	- 22	2	90,		11	11	1 -	11	11	11	11	11	11	11	11	1
EARS			-	1 11	11	11	11	-1	11	11	-1	11	- 1	04 1	:	_
A AO	5 70	00	. 75.	401	11	11	11	11	11	11	9 21	11	11	1	- 1	11
IODS	- 65	5	. 70.	1 00 1	14	11	1.1		11	1.1	91	11	11	111		11
PER	9 60	2	. 65.	0000	-1	11	11	-1	11	11		11	11		04 :	11
ED IS	0 55	o to	, 60.			11	11	4	11	11	500	11	11	000	i-	11
STAT	200	0	, 55,	1 1010	01 :	11	11		11		400	11	11	-	00-	11
GES,	0 45	o to	. 50.		50 1	11	11	1100	11	- 1		61-		17	50 H	
NT A	- 40	0 00	. 45.	22	9 1	11	11	50 GR	11	11	8 16 1 6	- 1	11	125	0.00	
FERE	- 55	02	40.	85 8	813	-:	20 1	55.00	11	401	40 8 16 11	1001	1	3 30		11
r Dir	30	02	35.	10				-	11		41		1	68	71	11
GES A	20	5	30.	89	8100	4.00	600	37	01		28.55	Z co	00	187	41	
MARRIAGES AT DIFFERENT AGES, STATED IN PERIODS OF YRARS, 1881.	50	to	25.	128	28	00 10	100	57		1-9	127	200	200	219	47	00 04
X	Un-	der	20.	62	46	-60	-100	123	01	=	111	23	10	111	1 22	(2)
	, u	ED.		68	es.	168.	.80	les.	es.	9	.89		es.	les.	lea.	68
	SEX	STATED.		Males	Males	Males	Males	Males	Males	Males	Males Females.	Males	Males	Males	Males	Males Females.
LES.	nown.	Jau	Both	-	1	1	1	-	1	T	20 4	1	-		1	1
Cour	OWN.	ales.	For- eign.		-	1	1					-	-	-	-	T
TEDBY	MALES UNENOWN	Females	Na- tive.	00	-	1			-	-	-	-	-	-	1	-
31, STA	LES OWN.	68.	For-	-			1				00 st	1	-		-	T
ED, 18	FEMALES UNKNOWN.	Males.	Na- tive.	00	-	-	Ī	-	1	1	1	1	1	-	T	T
MARE	For-	males,	tive Males.	81	9	60	-	18	İ	7	55	-	01	81	17	-
OF PERSONS MARRIED, 1881, STATED BY COUPLES	1000	Na- n	_	37	17	10	9	11	01	1	7	C1	-	108	25	1
10.0	eign.			12	9	69	01	34	1	-	76	56	7	140	51	-
NATIVITY	tve.	teN	Вогр	217	19	*	9	23	1	1	168	-	10	653	75	00
	188L	det,	Mari	307	26	7	15	125	60	05	317	SS	13	570	125	9
-			-	1	1		.1	1	1	1	1		, i	1	;	14
	Sarmanao	COONTIL		Oakland	Осеапа	Ogemaw	Ontonagon	Osceola	Oscoda	Otsego	Ottawa	Presque L.	Roscommon.	Saginaw	Sanilac	Schooleraft.

	1	11	11		03	40	601
11	11	+ 1	11	11	11	11	11
TI	11	69	11	01	11	- 1	11
11	11	64	11	-	61	-	11
01	11	0101	-		04	0 -	-1
	01	0101		60 00	00 00	94	TÌ
00	₩01	40	101	44	01 01	16	# 1
	94	80-	04	@ so	œ ==	21	11
010	C-00	04		99	900	88 22	01-
20	99	120	10 10	4-	14	36	10 01
5201	22	20	1-10	619	30	88 48 88	4-
22	890	45	139	75	16	81	100
100	113	97	67	200	101	**	000
-	==	0.4	901	1-01	9	174	01
200	158	144	63	104	112	597	16 21
212	126	115	866	8 96	62.02	356	29.0
108.	les.	les.	les.	les.	les.	les.	les.
Males	Male	Male	Males	Males.	Males	Males	Males
	-		1	-	1		1
1	1	-	1	1	1		:
- 4	- 1		1	1	1		1
Ť	1	1	1	+	1	01	1
-	2 1					61	1 1
1	2 2 1	+				7 4 29	4 1 1
9	60	+	1			7 4	- 1 1 -
		· · · · · · · · · · · · · · · · · · ·	70	5 7	34 g 1	*	9 4 1
9	60	+	1			7 4	6 9 4 1
21 6	8 94	+ L	75	10	38	175 7 4	
22 21 6	82 46 3	28 7 4	37 34	12 5	18 19	241 175 7 4	φ
145 9 22 21 6	115 52 46 3	813 10 28 7 4	. 81 87 84	8 12 5	215 29 41 34	564 521 241 175 7 4	16 6
206 145 9 22 21 6	369 110 115 62 46 3	364 313 10 28 7 4	199 97 81 37 34	249 216 8 12 5	322 215 29 41 34	1,555 564 521 241 175 7 4	67 30 16 6
206 145 9 22 21 6	369 110 115 62 46 3	364 313 10 28 7 4	199 97 81 37 34	249 216 8 12 5	322 215 29 41 34	1,555 564 521 241 175 7 4	67 30 16 6
145 9 22 21 6	369 110 115 62 46 3	813 10 28 7 4	97 -81 37 34	216 8 12 5	215 29 41 34	564 521 241 175 7 4	30 16 6

. 3 females "America.

"I couple and I male "America."

In Table IX. can be seen the number of males and females who were married in Michigan under the age of 21 years. In 1881 there were 7,465 such persons, of whom 936 were males, and 6,529 were females. This is a larger number than appears for any preceding year, and is more by 80 than was returned for 1880. There has been, with a few exceptions, a gradual increase from year to year in the number of persons married in Michigan under 21 years of age; 6.30 per cent. of the males, and 43.98 per cent. of the females

being thus married in 1881.

This table also shows the number of males and females who were returned as having been married under the legal age. There were 12 males, and 151 females who were thus illegally joined in matrimony in 1881. Attention is called to one case in Saginaw county where the bride was returned as only 13 years of age, the groom being 22 years old. This marriage was solemnized in East Saginaw, by John McEldowney, minister of the gospel. The penalty for solemnizing such marriages is a fine of five hundred dollars, and of spending a year in the county jail.

TABLE IX.—Exhibiting, for the State and Counties, the Total Number of each Sex under 21 years of Age; and the Number of each Sex at each Age under that of 21 years, Returned as having been Married in Michigan during the year ending December 31, 1881.

STATE		ONS MA		Ag	ES OF	MAI	LES,	1881.	-	A	GES .	OF F	EMAI	Es, 1	1881.		
AND		AGE, 1			en.	en.	een.s	3.6		en,	en.	een.	0.	1/N	en.s	en.s	B.R
COUNTIES.	Total.	Males.	Fe- males.	Twenty.	Nineteen.	Eighteen.	Seventeen	Sixteen.a	Twenty.	Nineteen,	Eighteen.	Seventeen	Sixteen.	Fifteen."	Fourteen.a	Thirteen.s	Twelve.a
STATE	7,465	936	6,529	594	244	86	12		1,579	1504	1534	1010	751	121	29	1	
Alcona	6		6								1	8	1	1			
Allegan	199	28	171	24	2	2			43	36	48	21	20	3			
Alpena	49	3	46	3				****	6	16	13	5	4	1	1		
Antrim	22	3	19	1	1	1			3	2	4	5	3	2			
Baraga	6		6						4	1	1						
Barry	134	20	114	11	4	4	1		24	24	32	17	13	2	2		
Bay	142	11	131	5	4	2			32	28	25	26	17	3			
Benzie	26	4	22	3	1				7	4	2	4	3	1	1		
Berrien	298	47	251	29	17		1		71	57	54	41	25	3			
Branch	142	23	119	14	7	2			24	30	31	11	21	2			
Calhoun	132	12	120	10	2				33	31	26	17	12	1			
Cass	127	21	103	17	7			-100	24	21	26	21	9	2			
Charlevoix	30	1	29			1			5	9	5	3	6	1			-
Cheboygan	47	4	43	2	1	1			8	5	12	8	8	2			
Chippewa	32		32						5	8	12	4	3				
Clare	27	5	22	1	2	1	1		- 9	1	4	5	4	5	1		
Clinton	148	20	128	8	9	2	1		26	33	29	24	14	1	1		

a Not legal marriages. For law and penalty to persons solemnizing, see sections (4719), (4720), (4728), and (4729), Compiled Laws of 1871, pages 1462, 1463, and 1464.

TABLE IX.—CONTINUED.—Persons Married under 21 Years of Age.

Crawford Delta Eaton Emmet	Total. 8 34 140 41 166	Males. 3 32 7	Fe-males.	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.a	nty.	teen.	een.	teen.	en.	en.a	een.a	cen, a	10.00
Delta Eaton	34 140 41	32	31	TO I			94	Six	Twenty.	Mineteen	Eighteen	Seventeen	Sixteen.	Fifteen.a	Fourteen	Thirteen,	Twelve.
Emmet	140	32	1000	22					3	1		2	1	1			
Emmet	41	63	200	3				****	8	8	8	2	4		1		
		7	108	18	10	4			27	24	15	21	16	3	2		
Genesee	166		34	6		1			10	8	9	3	4				
		24	142	12	8	3	1		22	24	40	24	29	3			
Gladwin	2		2										2				
Grand Traverse	30	1	29		1				.5	7	4	5	7	1			
Gratiot	134	16	118	9	6	1			18	17	27	20	31	4	1		
Hillsdale	181	28	153	16	7	5			28	38	48	25	14	****			
Houghton	84	12	72	8		4			13	15	16	15	8	2	3		
Huron	71	3	68	3					16	16	16	11	s	1			
Ingham	160	20	140	14	6.				22	26	43	24	20	3	2		
Ionia	175	31	144	20	6	5			33	31	32	28	17	3			
Iosco	62	5	57	3	2				15	12	12	6	9	3			
Isabella	60	7	53	5	1	1			14	11	10	10	6	2	****		
Jackson	191	32	159	19	11	2			37	38	38	21	22	1	2		
Kalamazoo	107	37	90	11	3	3			26	25	17	12	9	1			
Kalkaska	22	1	21	1					6	3	3	3	5	1			
Kent	328	38	290	24	9	4	1		76	69	67	44	33		1		
Kewcenaw	9		9							3	2	1	3				
Lake	15	1	14			1			2	3	3	1	4	1			
Lapcor	142	21	121	11	6	3	1		37	17	34	14	17	2			
Leelanaw	29	2	27	1	1				8	8	4	4	3				
Lenawee	222	29	193	17	10	2			53	43	46	31	17	2	1		
Livingston	88	11	77	7	4				14	92	17	16	7	1			
Mackinac	22	2	20	****	2				1	3	9	4	3				
Macomb	99	7	92	5	1	1			32	25	15	14	6				
Manistee	57	7	50	4	3				17	9	8	7	7	2			
Manitou	2		2									1	1				
Marquette	98	5	93	3	1	1			22	94	19	14	7	6	1		
Mason	43	3	40	3					10	7	12	3	4	4			
Mecosta	68	4	64	2	2				13	13	10	12	13	3			
Menominee	64	2	62	9					16	18	14	5	6	2	1		
Midland	36	6	30	4	1	1			10	4	4	6	3	2	1		

^{*} Not legal marriages. For law and penalty to persons solemnizing, see sections (4719), (4720), (4728), and (4729), Compiled Laws of 1871, pages 1462, 1463, and 1464.

TABLE IX.—CONTINUED.—Persons Married under 21 Years of Age.

		ONS MA		Ag	ES OF	MAI	es, 1	881.		Δ	GES	OF F	EMAI	LES,	1881.		
COUNTIES.		AGE, 18	881.	uty.	Nineteen.	leen.	Seventeen.a	ep.a	ty.	teen.	Eighteen.	Seventeen.	en.	еп.я	Fourteen.a	Thirteen.a	Yes
	Total.	Males.	Fe- males.	Twenty.	Nine	Elghteen.	Seve	Sixteeb,a	Twenty.	Nineteen.	Eigh	Seven	Stxteen.	Fifteen.a	Four	Thirt	Twelves
Missaukee	8	2	6	1		1			1	3		1	1				
Monroe	168	17	151	9	6	2			39	39	35	24	13	1			
Montcalm	143	22	121	16	5	1			23	26	29	19	19	5			
Muskegon	169	16	153	12	1	2	1		39	38	35	26	11	4			
Newaygo	70	8	62	5	1	2			7	17	14	12	9	2	1		
Oakland	110	12	98	8	3	1			36	24	16	18	4				
Oceana	65	7	58	7					12	8	18	9	10	1			
Ogemaw	8	2	6	1	1						2	1	2		1		
Ontonagon	9	2	7	1		1			4		3						
Osceola	70	6	64	5	1				11	17	15	7	9	3	2		
Oscoda	2		2								1	1					
Otsego	13		13						2	2	4	2	2	1			
Ottawa	172	30	142	19	10	1			25	33	89	26	17	1	1		****
Presque Isle	22		22					****		6	5	7	3	1			
Roscommon	5		5							1	1	2	1				
Saginaw	274	28	246	17	9	2			54	65	60	39	19	7	1	1	
Sanilae	76	6	70	5		1	****		13	20	17	11	9	****			
Schoolcraft	4		4						2			2					
Shinwassee	111	12	99	6	5	1			28	15	23	18	15				
St. Clair	184	17	167	13	4				41	48	38	24	16				
St. Joseph	179	27	152	14	.7	4	2		37	35	89	28	11	2			
Tuscola	146	24	122	16	6	1	1		23	24	30	22	21	1	1		
Van Buren	145	22	123	14	7	1			27	29	21	25	17	4			
Washtenaw	106	10	96	8	2				34	24	22	8	6	2			
Wayne	620	78	542	54	17	7			186	149	129	51	27	****			
Wexford	29	6	23	4	1		1		4	3	11	3		2			

a Not legal marriages. For law and penalty to persons solemnizing, see sections (4719), (4720), (4728), and (4729), Compiled Laws of 1871, pages 1462, 1463, and 1464.

MANNER OF UNION BY AGES.

Table X. shows the number of males at each period of age who married females at each of the periods of age. The ages of the males are placed in the first column, and the ages of the females across the top of the table. The table may be read as follows: The column next to the last shows that 342 males, who were married under 20 years of age, married 261 females aged under 20 years, 72 aged 20 to 25 years, 5 aged 25 to 30 years, 1 aged 30 to 35 years, and 3 whose ages were not returned; in like manner the other numbers in this column may be read. The 4,950 females, married under 20 years of

age, as seen in the line headed "Total Females," married males as follows: 261 married males under 20 years of age, 2,855 married males 20 to 25 years of age, 1,404 married males 25 to 30 years of age, etc. The last column and the bottom line of the table show the proportion of males and females married at each period of age. The largest proportion for both males and females appears for those aged 20 to 25 years.

TABLE X.—Exhibiting the Number of each Sex at each Period of Age who were married in Michigan during the Year 1881; the Number of each Sex at each Period of Age who were united to the opposite Sex at each Period of Age; and the Per Cent. of Brides and of Bridegrooms at each Period of Age to Total at All Ages.

AGES OF					AGE	s or	FRM	ALES	, 188	L.						des.	t, of at
MALES, 1881.	Un- der 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	80 and over.	Unk'n.	Total Males.	Grooms at
Under 20	261	72	5	1											3	342	2,3
20 to 25	2,855	2,754	322	44	17	4									14	6,010	40.4
25 to 30	1,404	2,119	759	121	29	10	5		****						13	4,460	30.0
30 to 35	314	723	434	189	65	26	3	2							1	1,757	11,8
35 to 40	70	216	206	140	105	37	15	2		1	1				1	796	5.3
40 to 45	22	82	89	99	85	54	27	4	2	1	****				2	467	3.1
45 to 50	15	36	44	51	54	58	43	3	4	2		1				306	2.0
50 to 55	4	17	17	33	45	33	38	33	6	3					3	232	1.6
55 to 60	1	6	6	15	22	25	28	21	15	5				****		139	.9
60 to 65	2	3	5	5	7	19	26	9	20	17	1	2	1		1	118	.7
55 to 70		5	1	2	3	6	13	20	10	15	5					80	.5
70 to 75		1	1		2	3	8	6	5	7	7	1				41	.2
75 to 80				1		1	3	1	4	5	3	1				19	.1
80 and over.						1		1	****		1					3	.0
Unknown	2	3													72	77	.5
Total	4,950	6,037	1,889	701	434	272	204	102	68	56	18	5	1		110	14,847	
Per Ct. of Brides at }	33.34	40.66	12.72	4.72	2.92	1.83	1.38	.69	.46	.38	.12	.03	.01		.74		100.0

In Table XI. can be seen some of the great differences in the ages of persons returned as having been married in Michigan during the year 1881. Some of the most remarkable marriages of the year were as follows: In Cass county, a man of 70 was married to a woman of 22, and in Genesee county a man of 35 was married to a woman of 66. Some of the females who were married during the year were decidedly old, and some of the males, also, were married at quite advanced ages.

TABLE XI.—Marriages with Great Disparity of Ages Returned as having been Solemnized in Michigan during the Year ending December 31, 1881.

		BRIDEGROOM OLDEST,-1881.	DEST,-1881.				BRIDE OLDEST,-1831.	EST,-1881.		
COUNTIES.	OCCUPATION	BIRTHPLACE	PLACE.	AGE.	E.	Occurrence	Викти	BIRTHPLACE.	Ac	AGE.
	OF BRIDEGROOM.	Bridegroom.	Bride.	Bride- groom.	Bride.	ор Виграброом.	Bridegroom.	Bride.	Bride- groom.	Bride.
Allegan	Farmer	Canada	Canada	75	31	Farmer	Michigan	Pennsylvania.	20	355
Alpena	Painter	Canada	Canada	45	19	Log Scaler	Maine	Maine	22	657
Antrim	Farmer	Wisconsin	Michigan	43	15				***************************************	*********
Baraga	Carpenter	New York	Michigan	70	27			***************************************	*******	
Barry	Farmer	Germany	Germany	69	16				***************************************	
Bay	Real-estate Dealer. Germany	Germany	Bohemia	29	888	***************************************			-	
Benzie.	Farmer	Nova Scotia	Massachusetts.	49	24	***************************************	***************************************		***********	-
Berrien	Farmer	North Carolina.	Delaware	76	40	Farmer	Indiana	Michigan	86	44
Branch	Physician	Unknown	Ohio	98	40	Farmer	New York	England	45	90
Calhoun	Farmer	New York	New York	20	. 68	Farmer	Michigan	New York	23	88
Cass	Farmer	Vermont	Michigan	20	65	***************************************	***************************************	***************************************		-
Charlevoix	Farmer	New York	Michigan	44	65	Farmer	Canada	Ireland	35	99
Cheboygan	Hotel-keeper	New York	Canada	98	50	Farmer	Canada	Canada	98	99
Ohippewa	Farmer	Canada	Canada	48	18		***************************************			
Clare	Unknown	Vermont	Michigan	42	21		***************************************			
Clinton	Farmer	New York	New York	29	23	Salesman	Michigan	Unknown	85	88
Enton	Farmer	Pennsylvania	Ohlo	7.4	44	Laborer	Germany	New York	30	40
Genesee	Farmer	New York	Michigan	99	30	Laborer	England	New York	32	99
Grand Traverse	Engineer	New York	Michigan	11	16		***************************************			-
Gratiot	Farmer	New York	Michigan	47	65	Farmer	New York	New York New York	47	72
Hilladalo	Donne	Now York	Nam Vork	00	00	We comment			-	-

Particol Carponice	H	Houghton	Carpenter	Vermont	Michigan	00	18					******
Farmer Oblo Michigan 74 26 Farmer Michigan Michigan Farmer Canada 46 17 Laborer Michigan Michigan Farmer England Canada 46 17 Laborer New York Michigan Farmer England Connecticut Michigan New York Michigan Farmer Fonnsylvania 70 23 Farmer Michigan Indiana Farmer Pennsylvania 70 24 Farmer Michigan New York Michigan Farmer New York Michigan 57 26 Farmer New York Michigan Farmer Laborer New York Michigan 50 22 Farmer New York Michigan Farmer Canada 40 17 Butcher New York New York Farmer Canada 40 17 Butcher New York New York Laborer Canad	H		Carpenter	New York	Michigan	00	18	-	-	Canada	81	35
Farmer Canada. Michigan. 74 20 Farmer Michigan. Michigan. Farmer Canada. Canada. Canada. Canada. Michigan. 60 20 Earmer Michigan. Mi	In	gham	***************************************	Ohio	Michigan	45	18	-	1	Michigan	86	9
Farmer Canada Canada 70 35 Laborer New York Michigan Farmer England Indiana 70 35 Laborer New York Michigan Farmer Pennsylvania 70 35 Farmer Michigan 10 Farmer Pennsylvania 70 45 Farmer Mew York New York New York Farmer Ireland Michigan 59 Farmer New York Michigan New York	Io	nin	Farmer	Vermont	Michigan	7.4	26		-	Massachusetts	81	45
Farmer England Indiana 70 35 Baker Germany Germany Retired Connecticut Michigan 56 21 Baker Germany Germany Ravner Pennsylvania 70 45 Farmer Michigan Indiana Farmer New York Michigan 51 58 Farmer New York Michigan Farmer New York Michigan 50 22 Farmer New York Michigan Farmer Conductor Vermont Michigan 50 22 Farmer New York Michigan Conductor Vermont Canada Michigan 40 17 Butcher Germany Germany Germany Germany Germany Germany Germany Germany Michigan M	13	800	Farmer	Canada	Canada	98		-	1	Michigan	24	650
Retired Connecticut Michigan 69 21 Baker Germany Germany Ramer Pennsylvania 70 45 Farmer New York New York Ramer Farmer New York Nichigan 57 20 Laborer New York Now York Michigan Farmer Ramer New York Michigan 57 20 Laborer New York Michigan Farmer Regamer Michigan 52 Farmer New York Michigan Ramer Michigan 32 Farmer Michigan New York Conductor Canada Michigan 40 17 Butcher New York Laborer Canada Michigan 40 18 Laborer New York Laborer Canada Michigan 40 18 Laborer New York Laborer Canada Michigan 41 Michigan 41 Michigan Laborer Canad	I Is	abella	Farmer	England	Indiana	20	33					
Real Estate Vermont Pennsylvania 36 20 Farmer Michigan Indiana Farmer New York Michigan 37 20 Laborer New York New York New York New York New York New York Michigan New York New York Michigan New York New York Michigan New York	188	ckson	Retired	Connecticut	Michigan	69	151	Baker	1	Germany	87	09
Rearmer Vermont Pennsylvania 70 45 Farmer New York New York New York New Jersey Farmer Rearmer New York Michigan 57 20 Laborer New York Michigan Laborer New York Michigan 59 26 Farmer New York Michigan Farmer New York Michigan 59 26 Farmer New York Michigan Conductor Canada Michigan 32 Farmer New York Michigan Conductor Canada 40 17 Butcher New York New York Conductor Canada 40 17 Butcher New York New York Canductor Canada Michigan 57 24 Laborer New York New York Laborer Canada Michigan 40 18 Farmer New York New York Laborer Canada Michigan 41 Michigan </td <td>31.</td> <td>lamazoo</td> <td>Farmer</td> <td>Pennsylvania</td> <td>New York</td> <td>99</td> <td>20</td> <td>Farmer</td> <td>1</td> <td>Indiana</td> <td>68</td> <td>89</td>	31.	lamazoo	Farmer	Pennsylvania	New York	99	20	Farmer	1	Indiana	68	89
Farmer New York Michigan 54 18 Farmer New York New Jersey Laborer Ireland Michigan 57 20 Laborer New York Michigan Laborer New York Sweden 59 26 Farmer Michigan New York Farmer Regland Michigan 32 Farmer Michigan New York Conductor Canada Michigan 32 Farmer Michigan New York Conductor Canada 40 17 Butcher New York New York Conductor Canada 40 18 Laborer New York New York Laborer Canada 40 18 Laborer New York New York Laborer Canada 40 18 Laborer New York New York Laborer Maryland Michigan 40 18 Laborer Carmany Laborer Manne Michigan 41	K	ılkaska	Real Estate	Vermont	Pennsylvania	20	45		1	New York	34	53
Farmer Ireland Michigan 57 20 Laborer New York Michigan Laborer New York Sweden 54 26 Farmer Michigan New York Farmer New York Michigan New York Michigan New York Michigan Farmer Canada Michigan 32 Farmer New York Michigan Conductor Vermont Canada 40 17 Butcher Germany Germany Conductor Vermont Canada 40 18 Laborer Sweden New York Laborer Canada 40 18 Laborer New York New York Laborer Canada 40 18 Laborer Onio Onio Laborer Maine 41 17 Farmer Brishigan Germany Laborer Maine 41 17 Farmer Brishigan Laborer Maine 41 Shoemark <	K	ont	Farmer	New York	Michigan	20	18	-	1	New Jersey	889	89
Laborer. New York Sweden 54 28 Farmer. Michigan New York Remany New York	La		Farmer	-	Michigan	22	50		1	Michigan	19	27
Farmer New York Ohio. 59 26 Farmer New York Michigan Farmer England Michigan 32 Farmer Michigan New York Farmer Canada Michigan 32 Farmer Germany Germany Conductor Vermont Canada 40 17 Butcher Germany Germany Laborer Germany Foland 40 18 Laborer New York New York Machanic Canada Michigan 40 18 Laborer Germany Germany Machanic Canada Michigan 40 18 Laborer Germany Germany Machanic Canada Michigan 41 Miner Germany Germany Isaborer Marine Michigan 42 Shoemaker England Michigan Farmer Canada Michigan 41 Farmer New York Michigan Farmer Cana	L		Laborer	New York	Sweden	25	36		-	Now York	30	40
Farmer England Michigan 50 23 Farmer Michigan New York Conductor Canada 40 17 Butcher Michigan New York Conductor Vermont Canada 40 17 Butcher Germany Germany Laborer Germany Germany 52 24 Laborer New York New York Laborer Canada Michigan 40 18 Laborer New York New York Laborer Canada Michigan 41 17 Farmer Germany Germany Laborer Canada Michigan 45 23 Laborer Germany Germany Lumberman Mayland Michigan 42 Shoe-maker England Michigan Lumberman Ponnsylvania 47 17 Farmer New York England Farmer New York England 19 Farmer New York Ronnsylvania	L	snaw66	Farmer	-	Ohio	62	56	Farmer	1	Michigan	200	42
Farmer Canada Michigan 32 16 Laborer Michigan New York Conductor Vermont Canada 40 17 Butcher Germany Germany Caborer Germany 62 24 Laborer New York New York Laborer Canada Michigan 40 18 Laborer New York New York Laborer Canada Maine 41 17 Farmer Ohio Ohio Lumberman Maryland Michigan 45 23 Laborer Germany Germany Lumberman Michigan 45 23 Laborer Brickland Michigan Lumberman Ponnsylvania Kentucky 64 42 Shoe-maker Briand Lumberman Ponnsylvania Michigan 47 17 Farmer New York England Farmer New York England 49 28 Farmer New York Ponnsylvania	T	vingston	Farmer		Michigan	20	67	-	1	New York	27	37
Conductor Vermont Canada 40 17 Butcher Germany Germany Laborer Germany 62 24 Laborer Sweden New York Mason Germany 67 30 Explorer New York New York Laborer Canada Michigan 40 18 Laborer New York New York Machanic Canada Maine 41 17 Farmer Canada Ohio Lumberman Maine Michigan 42 Shoe-maker England Michigan Lumberman Pennsylvania Kentucky 43 Shoe-maker England Michigan Rarmer Canada Michigan 32 17 Farmer New York Ragland Farmer Canada Michigan 32 Farmer New York Regland	M	ackinac	Farmer	-	Michigan	60	16		1	New York	56	40
Laborer Germany 62 24 Laborer Sweden New York Mason. Germany 40 18 Laborer New York New York Laborer Canada Michigan 40 18 Laborer New York Mechanic Canada Maine 41 17 Farmer Ohio Brick-layer Mayland Indiana 39 19 Miner Germany Laborer Maine Michigan 45 23 Indoer Germany Lumberman Pennsylvania Kentucky 64 42 Shoe-maker England Lumberman Rexmer Indoer England Michigan Saloon-keeper Noway 47 17 Farmer New York Michigan Farmer New York England 49 25 Farmer Ireland Pennsylvania	M	acomb	Conductor	Vermont	Canada	40	17		-	Germany	100	17
Mason Germany Poland 57 30 Explorer New York New York Laborer Canada Maine 40 18 Laborer Denmark New York Mechanic Canada Maine Anioligan Germany Ohio Lumberman Pennsylvania Kentucky 62 21 Laborer Michigan Lumberman Pennsylvania Kentucky 64 42 Shoe-maker England Michigan Saloon-keeper Canada Michigan Michigan At 17 Farmer New York Ragland Farmer Canada Michigan 82 Farmer New York Raineligan	M	nnistee	Laborer	Germany	Germany	25	24		-	New York	53	37
Laborer. Canada. Michigan. 40 18 Laborer. Denmark. New York. Mechanic Canada. Maine. 41 17 Farmer. Ganada. Ohio. Brick-layer. Maryland. Michigan. 45 23 Miner. Germany. Lumberman. Ohio. Ohio. 62 21 Laborer. England. Michigan. Lumberman. Pennsylvania. Kentucky. 64 42 Shoe-maker. England. Michigan. Saloon-keeper. Norway. 47 17 Farmer. New York. England. Farmer. New York. Brichigan. Renneylvania. 19 25 Farmer. Ireland. Pennsylvania.	M		Mason	Germany	Poland	57	30	-	1	New York	88	93
Mechanic Canada Maine 41 17 Farmer Canada Ohio Brick-layer Maryland Indiana 39 19 Miner Germany Germany Laborer Maine Michigan 62 21 Laborer Michigan Germany Lumberman Pennsylvania Kentucky 64 42 Shoe-maker England Michigan Saloon-keeper Norway 47 17 Farmer New York England Farmer New York England 49 28 Farmer Ireland Pennsylvania	M		Laborer	Canada	Michigan	40	18	-	1	New York	100	45
Brick-layer Maryland Indiana 39 19 Miner Germany Germany Laborer Maine Michigan 45 23 ————————————————————————————————————	M	ocosts,	Mechanic	Canada	Maine	7	17		-	Ohio	23	37
Laborer Maine Michigan 45 23 Laborer Michigan Germany Lumberman Pennsylvania Kentucky 64 42 Shoe-maker England Michigan Saloon-keeper Norway 47 17 Farmer New York England Farmer New York Michigan 82 16 Laborer New York Michigan Farmer New York England 49 25 Farmer Ireland Fenneylvania	N	enominee	Brick-layer	Maryland	Indiana	33	19	1	1	Germany	24	92
Farmer. Ohio. <	M	Idland	Laborer	Maine	Michigan	45	23				1	-
Lumberman Ponnsylvania Kentucky 64 42 Shoe-maker England Michigan Saloon-keeper Norway 47 17 Farmer Now York England Farmer Saloon-keeper Now York Bigland Farmer New York Michigan Farmer New York Pennsylvania	M	onroe		Ohio	Ohto	62	15		1	Germany	95	46
Saloon-keeper Norway Michigan 82 16 Laborer New York England Farmer New York Michigan Farmer New York England 49 28 Farmer Ireland Pennsylvania	M	ontealm	Lumberman		Kentucky	64	43	-	1	Michigan	61	40
Farmer Canada Michigan 32 16 Laborer New York Michigan Farmer Ireland Pennsylvanla	M	uskegon	Saloon-keeper	Norway	Norway	17	17	-	1	England	30	20
Farmer New York England 49 28 Farmer Ireland Ponnsylvania	X	ewaygo	Farmer	Canada	Michigan	650	16		-	Michigan	41	- 64
	0	akland		New York	England	67	88		1	Pennsylvania	87	8#

TABLE XI.—Continued.—Marriages with great Disparity of Ages.

		BRIDEGROOM OLDEST,-1881,	DEST,-1881,	-			BRIDE OLI	BRIDE OLDEST,-1881.		
COUNTIES.	OCCUPATION	BIRTE	BIRTHPLACE.	AGE.	ii.	Occurbantow	Вівтн	BIRTHPLACE.	A.C.	ABE.
	OF BRIDEGROOM,	Bridegroom.	Bride.	Bride- groom.	Bride.	OF BRIDEGROOM.	Bridegroom.	Bride.	Bride- groom.	Bride.
Oceana	Merchant	New York	Unknown	97	21	Farmer Ireland Pennsylvania	Ireland	Pennsylvania.	54	64
Osceola	Peddler	Vermont Indiana	Indiana	40	16					-
Otsego	Farmer	Pennsylvania Michigan	Michigan	97	18					-
Ottawa	Unknown	Ohio	Ohio	48	18	Farmer	Michigan	Germany	27	47
Presque Isle					-	Farmer	Michigan	Germany	12	+
Saginaw	Carpenter	New Brunswick New York	New York	56	21	Laborer	Canada	Germany	-16	200
Sanilac	Farmer	Ontario	Ontario	22	56	Farmer	Canada	Canada	45	09
St. Clair	Farmer	England	Canada	99	24	Farmer	Canada	New York	44	58
St. Joseph	Farmer	Pennsylvania	Michigan	89	24					-
Tuscola	Farmer	Sweden	New York	46	18				1	-
Van Buren	Wagon-maker	New York	Michigan	09	25	Painter	Michigan	New York	38	20
Washtenaw	1	New York	Michigan	20	18	Laborer	Wisconsin		22	38
Wayne	Fruit.Dealer	Italy	Germany	25	23	Confectioner Canada	Canada	Michigan	16	88
Wexford Drayman	-	. Unknown Oblo	Ohio	28	33	Engineer	Michigan	New York	26	45

EXHIBIT D.—Number of Inhabitants to One Marriage, as stated for Different Foreign Countries, the United States, and some of the States of the Union. The Statements for Michigan include only the Inhabitants of Counties Represented by Returns of Marriages.

COUNTRY, STATE, OR	Year for which the State- ment is made.	Inhabi to o Marri Annu	ne lage	COUNTRY, STATE, OR CITY.	Year for which the State- ment is made.	Inhabit ants to one Mar riage An- nually.
Austria		117	1	Massachusettsd	1871	95
Bavaria		160		Massachusettsd	1872	95
Belgium		122		Massachusettsd	1873	96
Denmark		129	=	Massachusettsd	1874	103
England		122	1869,	Massachusettsd	1875	121
Finland		141	for	Massachusettsd	1876	129
France		122		Massachusettsd	1877	130
Greece		174	Minnesota	Massachusettsd	1878	129
Holland		129	Min	Massachusettsd	1879	124
Norway		124	of 1	Massachusettsd	1880	114
Prussia		106	ics	Massachusettsd	1881	111
Russia		111	Statistics	Michiganef	1872	117
Saxony		107	Sta	Michiganef	1873	109
Spain		141	H	Michiganef	1874	110
Sweden		135	from	Michigan	1874	100
United States	1860	122	Taken	Michiganer	1875	117
New York	1860	135	Ta	Michiganer	1876	121
Ohio		105		Michiganef	1877	125
Minnesota	1860	110		Michiganef	1878	120
Minnesota	1868	107		Michiganef	1879	115
Minnesotaa	1870	116		Michigan	1880	112
New Jerseyb	1870	135		Michigan	1880	112
New York City	1870	118		Michiganef	1881	114
Massachusettsd	1870	99				

^{*} Taken from Statistics of Minnesota for 1870.

* There were 16 Townships from which no returns of marriages were received. Computed from data in Registration Report of New Jersey for 1870.

* Computed from data in Report of Board of Health, of Health Department, for 1870.

* Taken from Registration Report of Massachusetts for 1881, page 38.

* Marriages corrected, for additional returns, up to February 3, 1883

* Population estimated from Censuses of 1870 and 1880.

TABLE XII.—Exhibiting, for the State and Counties, the Number of Marriages in Michigan during each of the Years 1875 to 1881, inclusive, Returned previous to May 11, 1883; for the Years 1878, 1879, and 1880, the Number as first Returned, and the Number Returned since Compilation; the Number of Inhabitants in 1880; the Number of Inhabitants. ands in 1880 to One Marriage in 1881; and the Per Cent. of Marriages in 1881 to Inhabitants in 1880.

						MAR	ARRIAGES.						1		Number	
STATE	1875,	1876.	1877.		1878.			1870.	7		1830.		1881.	Popula- tion, 1880,	Inhabit-	Cent. of
AND COUNTIES.	Number Re- turned previ- ous to Feb. 8, 1853.	Number Re- turned previ- ons to Feb. 8, 1883.	Number Re- turned previ- ous to Feb. 8, 1883.	Number as first Re- turned and Com- piled.	Number Number Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Reber Rebe		Number as first Re- turned and Com- plied.	Number Number Re- Re- Re- Re- Re- Re- Re- Re- Re- Re-		Number Number Re- as Re- first Re- turned turned turned since previ. ad first ous to Compl. Feb. 8, piled. lation. 1889.	Number Re- turned since first Compi- lation.	Number Re- turned previ- ous to Feb. 8, ISSS.	Number Re- turned.	Represented by Marriages in 1831,	-	rlages in 1881 to Popu- lation in 1880.
	11,860	11,893	11,844	12,221	809	19,899	13,925	169	18,816	14,149	511	14,660	14,847	1,636,882	110	16.
10	13	9	6	9		9	19	-	19	15	1	13	14	8,107	222	.45
gan	299	306	273	275	13	288	315	90	323	358	1	329	372	37,815	102	86.
pona	19	47	44	24	64	99	53	12	29	9	04	62	100	8,789	88	1.14
Autrim	13	25	23	83	61	84	45	1	46	68		39	36	5,237	145	69.
Barnen	10	11	7	1	***************************************	7	6		0	13		13	16	1,804	113	68.
HAFTY	190	207	214	212	O1	214	916	00	249	232	00	235	199	25,317	127	67.
BAY	202	190	174	246	П	257	159	11	170	217	13	230	305	38,081	126	.79
Benzie	34	33	55	21		21	31	***************************************	31	33	-	553	43	3,433	80	1.25
Berrien	390	489	371	422	16	438	486	14	200	458	90	478	299	36,785	65.	1.53
Branch	309	288	286	310	7	317	311	00	319	284	22	309	251	27,941	H	06.
Cathoun	318	283	202	321	12	333	330	7	337	354	es	357	350	38,452	111	98:
Cass	195	217	181	202	11	213	232	10	237	220	2	227	251	92,009	88	1.14
Charlevolx	12	25	31	20	00	25	16	CI	36	25	-	25	19	5,115	112	1.06
Challe how on n	16	23	45	40	8	43	111	1	43	26	17	19	73	6,524	68	1,12

66.	1.00	18"	26.	1.06	11.	96"	18.	58.	.70	06.	1.06	18.	.67	.87	88.	1.60	.81		1.00	08.	1,06	.88	.73	.65	.83
101	100	119	105	98	130	101	119	282	143	111	96	115	150	114	111	63	123	-	100	124	95	113	138	154	121
5,218	4,187	98,100	1,159	6,812	31,225	6,639	39,220	1,127	8,499	21,936	32,723	22,473	50,089	33,676	33,872	6,873	12,159		42,031	34,842	2,937	73,953	4,970	3,233	30,138
55	40	236	=	75	240	19	859	4	20	197	346	196	134	294	865	110	00	1	491	976	31	919	001	21	919
22	30	244	13	89	566	19	338	4	53	193	403	169	134	340	339	90	96		375	322	36	H31	68	16	258
01	-	-	-	-		-	7		10	-	00	-	-	6	161	7	C1		16	29	1	13	64	-	=
20	88	214	13	89	566	19	334	4	73	191	305	169	134	331	85	98	76	-	329	205	92	618	27	16	247
19.	27	232	01	09	280	40	101	*	83	179	388	170	142	329	346	48	11		396	311	11	651	6	97	263
-	-	00	1		10	C4	133	-	10	04	90		7	00	1	-	-		9	19	1	19	01	1	ю
19 1	27	550	04	09	275	255	366	00	1	177	380	170	138	326	339	48	20	-	390	250	16	632	1	24	528
12	16	230	-	43	274	22	308	+	61	139	396	164	120	400	301	46	99	1	370	334	30	609	96	16	237
		01	-		90		1		-	9	55	40		10	53			-	10	35		03	-	-	90
121	16	928	-	43	266	22	391	*	23	133	371	159	120	395	976	97	99	-	828	302	30	579	96	16	655
23	133	187	-	**	803	30	364	4	45	137	337	188	109	313	268	40	65	-	101	255	16	593	100	13	195
111	7	202	-	22	274	61	356	-	63	118	373	152	129	165	286	17	99		364	206	11	-119	40	13	197
12 1	10	198	1	81	271	14	00 40	01	00	142	382	136	112	346	67	81	52		357	312	-	657	93	11	197
Chippewa	Clare	Cilnton	Crawford	Delta	Eaton	Emmet	Genesee.	Gladwin	Grand Traverse	Gratiot	Hillsdale	Houghton	Huron	Ingham	Ionia	Iosco	Isabella	Isle Royal	Jackson	Kalamazoo	Knikaska	Kent	Keweenaw	Lake	Lapeer

. No returns of marriages from county clerk.

TABLE XII.—Continued.—Marriages Corrected by Counties.

						MAR	ABRIAGE	. 82	•						Number	Per
	1875.	1876.	1877.		1878.			1579.	-		1880.		1881.	Popula. tion, 1880,	of Inhabit.	Cent. of Mar-
COUNTIES.	Number Re- turned previ- ous to Feb. %,	Number Re- turned previ- ous to Feb. 8, 1883.	Number Re- turned previ ous to Feb. 8,	Number as first Re- turned and Com-	Number Re- turned since first Compl- lation.	Number Re- turned previ- ous to Feb. 8,	Number as first Re- turned and Com- piled.	Number Re- turned since first Compi- lation.	Number Re- turned previ- ous to Feb. 9, 1883.	Number as first Re- turned and Com-	Number Re- turned since frst Compi-	Number Re- turned previ- ous to Feb. 8,	Number Re- turned.	Represented by Marriages in 1881.	ants in 1830 to one Mar- riage in 1831.	riages in 1881 to Popu- lation in 1830,
Leelanaw	25	S	9	27		27	ន	01	ន	82	1	Si	â		138	7.
Lenawee	9;7	83	430	30	28	191	3	8	53	436	\$	7,	209	48,343	28	3.
Livingston	157	145	158	श्च	7	138	346	*	160	151	*	32	166	188,12	25	.75
Mackinac	13	:	12	ន		ន	18		22	23		ş	33	2,002	92	1.31
Macomb	808	235	£23	233	2	01-5	878	-	830	232	•	85	35	31,627	131	5.
Manistee	71	26	8	22	60	3	2	æ	16	101	ន	124	21	12,532	Ξ	8.
Maniton			8	11	i	ī	20		*	1		-	•	1,334	55	.
Marquette	140	108	119	8	25	211	120	2	130	157	•	34	9	102'93	134	8.
Mason	65	23	69	11		12	82	-	83	107		107	101	10,065	100	1.00
Mecosta	88	8	97	102	7	103	103	7	107	126		125	143	13,973	2	1.02
Menomineo	81	82	8	8	-	88	53		3	130	•	123	338	11,987	22	1.32
Midland	8	81	7	ž		79	\$	•0	8	8	_	ક્ર	20	υ,803	111	8.
Missaukee	•	•	-	9		•	61	64	-	33		22	60	1,663	101	84.
Monroe	308	311	834	802	15	830	366	18	788	314	13	327	315	33,024	6	1.03
Montcalm	8	쥝	214	233	10	823	516	=	88	280	60	202	5%	83,148	110	Ę.
Montmorency		i							:	:			-	•		:
Muskegon	157	171	147	191	•	168	203	2	183	330		300	824	26,580	2	1.88
Newaygo	87	182	10	92	=	87	801	•	90	186		281	5	14,0an	- -	Ę

774	.83	.73	.58	1.16	.64	1.01	96'	1.06	68.	96"	.47	88.	.73	08.	1.37	11.	18.	11.	.93	86.
135	121	137	171	86	156	66	104	94	112	104	211	263	131	125	73	129	124	130	107	102
41,537	11,699	1,914	2,585	10,777	467	1,974	33,126	3,113	1,450	29,092	26,341	1,575	27,059	46,197	26,626	25,738	30,807	41,848	166,444	6,515
1 208	16	14	15	125	60	20	317	600	13	570	125	9	206	808	384	199	249	322	1,555	19
296	==	9	#	120		53	281	10	10	202	150	-	505	403	336	200	283	852	1,616	53
101				00			11	1	-	50	95	***************************************	9	27	11	2	19		17	
286	III	9	11	117		82	270	6	10	485	124	7	500	376	325	195	557	353	1,539	53
331	88	7	6	10		6	523	12	17	492	149	1	163	406	306	916	256	323	1,326	3
1 12	- Contract	-	-		-	04	6	00		49	01	-	6	65	66	7	10	+	38	1
304	88		8	16		1	516	4	11	450	147	1	154	384	277	212	975	618	1,308	61
321	81	00	11	76	-	80	221	*	4	403	153	8	174	321	242	192	286	976	1,136	46
03			-	1	-	1	10	***************************************	1	31	1		6	81	88	80	18	10	87	
301	81	20	10	75		-	216	7	80	371	152	6	165	200	314	189	268	208	1,049	46
342	75	64	19	79	-	10	241		01	360	135	10	196	330	338	163	676	293	686	43
344	89	9	13	47		13	246	10		391	118	10	186	849	302	148	245	275	1,0%3	51
342	69	-	12	37	-	-	240	60	7	368	133	10	167	820	307	141	855	275	606	30
Oakland	Осоппа	Ogemaw	Ontonagon	Osceola	Oscoda	Otsego	Ottawa	Presque Isle	Roscommon	Saginaw	Sanilac	Schoolcraft	Shiawassee	St. Clair	St. Joseph	Tuscola	Van Buren	Washtenaw	Wayno	Wexford

. The population of Montmorency County is included in the population of Alpena County and cannot be ascertained.

DEATHS, 1881.

For the year 1881 the number of deaths returned to the State Department was 19,238, being 3,136 more than was returned for any previous year. The population, according to the United States Census of 1880, represented by the returns of deaths was 1,621,927, and the ratio of deaths to population was 11.9 to 1,000.

Although the number of deaths returned would be greater with an increase in the number of inhabitants, it is probable that the registration for the

your 1881 is nearer correct than any preceding year.

(Introducted for omissions, the number of deaths occurring in 1881 is estimated at 27,387, and the death-rate 16.9 to 1,000 inhabitants. Even this ratio bears a suspicion of being somewhat less than the probable true ratio, and toaches us that, with our present system of registration, the greatest possible value to be derived from the data collected must pertain, not to the study of ratio of deaths to population, but to that of causes of deaths to each other, of births to deaths, the numbers being sufficiently great to make such study profitable. Also the relation of deaths, especially where the number returned is considerable, to meteorological conditions, to seasons, and to the social ofrequestances of communities.

The average number of deaths for certain specified periods of time, as returned and as corrected for omissions in enumerating, including those in unknown month, is as follows:

PERIODS OF TIME.	Deaths as Returned.	Corrected as per Exhibit C, 4th line.
Per quarter	4,809.50	6,830.25
Per month	1,603.17	2,276.75
Per week	869.96	525,40
Per day	52.71	74,85
	<u>. </u>	l

THE DEATH-RATE IN MICHIGAN.

The following tabular statement shows the death-rate in Michigan, both as regards the number of deaths returned, and the number as corrected for omissions in the enumeration. It is worthy of careful study:

	Inhabitants	To come and	Deaths Corrected		OF DEATHS BITANTS.
1 11	In 1880 Represented by Deaths in 1881.	Deaths as Returned.	for Omissions in Enumer- ating.	Deaths as Returned.	Deaths Corrected for Omissions.
Total	1,621,927	19,238	27,387	1.19	1.69

Turning to Table I. an opportunity is given to compare the relative mortality of the different seasons for a series of years. The greatest number of deaths is shown to have occurred in that quarter of the year ending with September in each of the years represented. The Registration Reports for the same years, for the State of Massachusetts, also show the greatest mortality to have occurred in the same quarter. A much less variation in the per cent. of deaths for other seasons is represented in both States.

TABLE I.—Deaths in Michigan by Quarters of the Year, Exhibiting the Number and Per Cent. of Total as Returned for each of the Years 1876 to 1881, inclusive.

	ALS, AND	1876	6.	187	7.	187	S.	187	0.	188	0.	188	1.
QU	H WHICH ARTERS END,	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total,	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total,	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total,
To	tals	12,576	100.00	12,919	100,00	-12,766	100.00	14,407	100,00	16,102	100.00	19,238	100.00
	March	2,460	19,56	2,599	20.12	2,449	19,18	3,009	20.89	3,011	18.70	3,458	17.98
Don J	June	2,803	22,29	2,829	21.90	2,822	22,10	3,159	21.93	8,491	21.68	4,160	21.62
As Returned.	ept	4,009	31.88	3,999	30.95	3,731	29.23	4,123	28,62	4,983	30,95	6,248	32.48
1	Dec	3,273	26.02	3,436	26.60	3,740	29,30	4,075	28.28	4,574	28.40	5,306	27.58
	Unknown	31	.25	56	.43	24	,19	41	.28	43	.27	66	.34
Ave	rage	3,144.00	25.00	3,229.75	25.00	3,191.50	25,00	3,601.75	25,00	4,025,50	25.00	4,809.50	25.00
Tota	ıls	18,389	100.00	18,341	100,00	18,866	100,00	20,583	100.00	26,256	100.00	27,357	100,00
10	(March	4,153	22.58	4,227	23,05	4,217	22,35	4,933	23.97	5,877	22.38	5,679	20.7
od r	June	4,364	23.73	4,259	23.22	4,468	23,68	4,793	23,28	6,183	23.55	6,314	23.0
Corrected for Omtanions.	Sept	5,661	30,78	5,495	29,96	5,340	28.30	5,703	27.71	7,837	29,85	8,642	31.5
	Dec	4,180	22.73	4,304	23,47	4,817	25.53	5,113	24.84	6,316	24.06	6,686	24.4
4.	Unk	31	.17	56	.30	24	.13	41	.20	43	.16	66	.2
AVE	rage	4,597	25,00	4,583	25,00	4,717	25.00	5,146	25.00	2,188	25.00	6,847	25.00

[.] Including deaths in unknown month.

1 Month Tabibiling the Number and Dan Chant Air Michig

106		VI	ral :	STA	TI	ST.	ICS	3 0	F:	MI	CH	1G.	ΑN	, 18	881.	•	
rued as having occurred in Michigan, by Months, Exhibiting the Number and Per Vent. of Iotal 76, 1877, 1875, 1879, 1880, and 1881, the months arranged in order by Number of Deaths, Number first.		Per Ct. of Total.	100.00	11.86	11.67	10.09	9.08	3 .8	8.41	7.57	7.42	6.84	6.63	2.60	9.04	ž.	8.83
Cent. iber of	1881.	Num- ber.	19,238	2,301	2,246	1,941	1,748	1,701	1,617	1,457	1,427	1,315	1,276	1,078	1,065	8	1,608
d Per 19 Nun		Year and Months.	Year	Sept	Aug	10.04 Oct	Dec	July	Nov	8.01 May	April	7.14 Mar	June	Feb	Jan	Unk	8.33 AV
ber an order b		Per Ct. of Total.	100.00	11.05	10.41	10.04	9.48	9.23	9.14	8.01	7.24	7.14	6.43	6.22	5.34	78.	8.33
e Num red in c	1880.	Num- ber.	16, 102	1,780	1,676	1,617	1,527	1,496	1,471	1,289	1,166	1,149	1,036	1,002	800	\$	1,841.83
ting the arrang		Year and Months.	Year	Λυβ	Sept	Dec	July	Nov	Oct	April	Мау	Mar	June	Feb	Jan	Unk	AV 1,841.83
Exhibi 10nths		Per Ct. of Total.	100.00	10.67	10.56	9.74	8.93	8.80	8.21	8.15	7.73	7.52	88.9	6.97	6.26	88.	8.33
nths, , the n	1879.	Num- ber.	14,407	1,537	1,521	1,403	1,286	1,268	1,183	1,174	1,114	1,083	883	808	806	Ş	1,200.58
by Mo 1881		Year and Months.	Year	Aug	Dec	Sept	Oct	Nov	July	April	Mar	Мау	Feb	6.18 Jan	5.72 Juno	.19 Unk	8.83 AT 1,200.58
higan, O, and		Per Ct. of Total.	100.00	10.74	10.72	10.52	9.32	0.25	8.06	7.97	7.28	7.23	6.83	6.18	5.73	e.	8.83
in Mic), 188	1878.	Num. ber.	12,766	1,371	1,369	1,343	1,190	1,181	1,029	1,017	930	858	870	789	130	22	1,063.83
urred, 1875		Year and Months.	100.00 Year	Aug	Dec	Sept	Oct	Nov	April	July	Mar	May	June	Feb	Jan	Unk	8.33 AV 1,063.83
ng occ 1878 st.		Per Ct. of Total.	100.00	12.07	10.84	9.43	8 .94	8.30	8.05	7.66	7.57	7.55	6.77	6.53	5.03	\$.	8.83
ned as having 76, 1877, 18 Number first.	1877.	Num- ber.	12,919	1,559	1,400	1,23	1,155	1,060	1,040	066	978	976	875	843	766	26	V
		Per Ct. Year of and Total. Months.	100.00 Year	-γng	11.82 Sept	Oct	Dec	Nov	July	Mar	April	Мау	6.80 June	Feb	5.45 Jan	Unk	ΨΑ
Deaths Returibs Years 18:		Per Ct. of Total.	100.00	11.98	11.82	9.17	8.99	8.58	7.88	7.78	7.75	7.71	6.83	6.36	5,45	8.	8.83
Docti the Y 7 the G	1876.	Num- ber.	12,576	1,507	1,423	1,153	1,131	1,079	886	978	975	970	835	800	685	3	1,048.00
		Year and Months.	Year	Aug	Sept	Dec	Oct	July	Nov	April	Mar	May	June	Feb	Jan	Unk	Av 1,048.00

ORDER.

Aug. .. 2 Sept. .. 3 Dec....

4 Oct. ... 5 July... 6 Nov.... 7 April.. 8 Mar. ... 9 May ... 10 June .. 11 Feb.... 12 Jan.... The monthly mortality and the influence of seasons upon mortality may be further studied in Table II. Of the first quarter of the year, the mortality in Michigan was greatest in March; of the second, in May; of the third, in September; and of the fourth, in October.

Table II. also shows when the monthly mortality was greater than the

average.

Table III. shows the death-rate of the males as compared with that of the females in Michigan. During the year, 115 males died to 100 females. We must consider, however, that the male population is somewhat in excess of the female in Michigan. Nevertheless, this does not entirely account for the difference of mortality between the two sexes. The greatest excess of deaths among the males occurred in the month of March, and the least in May.

TABLE III.—Number and Per Cent. of Deaths of Males and of Females in Michigan in 1881, from all Causes, as Returned, by Months. (Unknown sex excluded.)

	AS RET	URNED, 81.	PER CEN		CH SEX S	TOTAL	Males
YEAR AND MONTHS, 1881.	Males.	Fe-	Males.	Fe- males.		S OF THE XES.	Fe- males.
		mares.		mares.	Males.	Females.	
YEAR 1881	10,263	8,910	53.53	46.47	7.06		115
January	552	508	52.08	47.92	4.16		109
February	562	509	52.47	47,53	4.94		110
March	732	580	55,79	44,21	11.58		126
April	803	624	56.27	43,73	12.54	*******	129
May	737	714	50.79	49,21	1.58		103
June	673	598	52,95	47.05	5.90		113
July	921	771	54.43	45.57	8.86		119
August	1,198	1,038	53.58	46.42	7.16		115
September	1,226	1,071	53,87	46,63	6.74		114
October	997	943	51.39	48,61	2.78		100
November	895	717	55.52	44.48	11.04		125
December	927	811	53,34	46.66	6.68		114
Unknown	40	26	60.61	39.39	21,22		154

In Exhibit A the numbers are equalized for months of uniform length, so that, in studying the relations of the months as regards the number of deaths, no allowance need be made for different lengths of the months.

EXHIBIT A.—By Sex, the Number of Deaths Returned as having occurred in Michigan during the Year 1881, by Months Equalized to 30.44 days each;—Number of Deaths in each Month; Per Cent. of Deaths in each Month to Total Deaths during the Year; and Per Cent. and Excess of Per Cent. of Deaths of each Sex to Total of both Sexes.

YEAR		ER OF , AS R EQUAL	BTURNI				TAL DU		TOTA	L OF E	RACE B OTE BI BEX I DED.	EXES,
MONTHS, 1891.			Fe-				Fe-			Fe-	Exc	Z89.
200	Total	Males.	males.	Unk.	Total.	Males.	males.	Unk.	Males.	mules.	Males.	Te- males.
YEAR, 1881.	a 19,222	10,255	8,902	65	100.00	100.00	100.00	100.00	53.53	46.47	7.08	
January	1,046	542	499	5	5.44	5.29	5.61	7.69	52.07	47.93	4.16	
February	1,171	611	553	7	6.09	5.96	6.21	10.77	52.49	47.51	4.98	
March	1,292	719	570	8	6.72	7.01	6.40	4.62	55.78	44.22	11.56	
April	1,448	815	633		7.58	7.95	7.11		56.28	43.72	12,56	
May	1,481	724	701	6	7.44	7.06	7.87	9.23	50.81	49.19	1.62	
June	1,295	683	607	5	6.74	6.66	6.82	7.69	52.95	47.05	5.90	
July	1,670	904	757	9	8,09	8,82	8.50	18.85	54.43	45.57	8.86	
August	2,205	1,176	1,019	10	11.47	11.47	11.45	15.88	53.56	46.42	7.16	
September.	2,835	1,244	1,067	4	12.15	12.18	12.21	6.15	53.37	46.63	6.74	
October	1,906	979	926	1	9,92	9.55	10.40	1.54	51.89	48.61	2,78	
November	1,641	906	728	5	8.54	8.85	8,18	7.69	55.50	44.50	11.00	
December.	1,716	910	796	10	8,93	8,87	8.94	15.88	53.34	46.66	6.68	
Unknown	66	40	26	••••	.84	.89	. 29		60,61	39.39	21.22	
Average	1,596	851	740	5	8.83	8.83	8.33	8,83				

sixteen—8 males and 8 females—lost in equalization.
 Unknown month excluded.

Exhibit B may be studied with profit in connection with tables I. and II. and Exhibit A.

EXHIBIT B.—Months arranged in Order by Number of Deaths—those having the greatest Number first,—in Michigan for each of the Years 1878 to 1881, inclusive, as per Registration Returns, and for each of the Years 1879, 1880, and 1881, Corrected for Omissions in Enumerating; in Massachusetts for each of the Years 1879, 1880, and 1881; also, in Rhode Island for each of the Years 1879, 1880, and 1881.

ORDER.	IST	IGAN, A	RETUI	uns,	RECTE SIONS TING,	IIGAN, ED FOR IN ENU INCLU	OMIS- MERA- DING	In	ACHUS.	NG	E:	DE ISL KCLUDI LL-BIR	NG
	1878.	1879.	1880.	1881.	1879.	1880.	1881.	1879.	1880.	1881.	1879.	1880.	1881.
1	Aug.	Aug.	Aug.	Sept.	Aug.	Aug.	Aug.	Jan.	Aug.	Aug.	Jan.	July.	Aug.
2	Dec.	Dec.	Sept.	Aug.	Sept.	Sept.	Sept.	Aug.	July.	Sept.	Aug.	Aug.	Jan.
	Sept.	Sept.	Dec.	Oct.	Dec.	July.	Oct.	Mar.	Sept.	April	Dec.	Mar.	July
	Oct.	Oct.	July.	Dec.	Apr.	Apr.	July.	Apr.	Dec.	Mar.	Oct.	Jan.	Oct.
	Nov.	Nov.	Nov.	July.	Mar.	Mar.	Apr.	July.	Mar.	Oct.	Nov.	Oct.	Apr.
	Apr.	July.	Oct.	Nov.	July.	Dec.	May.	Feb.	Apr.	Jan.	July.	Apr.	Sept.
	July.	Apr.	Apr.	May.	Oct.	Oct.	Dec.	Dec.	Oct.	July.	Mar.	May.	May.
8	Mar.	Mar.	May.	Apr.	May.	May.	Mar.	May.	May.	Dec.	Apr.	Sept.	Mar.
	May.	May.	Mar.	Mar.	Feb.	Nov.	Nov.	Sept.	Nov.	Feb.	Sept.	Dec.	Feb.
0	J'ne.	Feb.	J'ne.	J'ne.	Nov.	Feb.	J'ne.	Oct.	Jan.	May.	Feb.	Feb.	Dec.
1	Feb.	Jan.	Feb.	Feb.	Jan.	J'ne.	Jan.	Nov.	Feb.	Nov.	May.	Nov.	Nov.
2	Jan.	J'ne.	Jan.	Jan.	J'ne.	Jan.	Feb.	J'ne.	J'ne.	J'ne.	J'ne.	J'ne.	J'ne.

OMISSIONS IN THE ENUMERATION OF DEATHS.

The method of correcting the returns for omissions has been amply explained in preceding reports. Exhibits C and E, contain details of the work, and some of the resulting statements.

110 **alized** for Increase of Population during the Year covered by the Returns, and the Deaths as thus Corrected and **for the** several Months, Equalized for Months of a uniform length of 30.44 days; also, indicuting some of the -Deaths in Michigan during the Year 1881, as Returned; as Corrected for Omissions in Enumerating, the stens by which these results have been reached

						Ř	MONTHS, 1881	, 1881.					1
	TOTALA	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Deaths as returned by Registration Officers. Per cent, of deaths to be added for correction for time enapsing before enumeration. Number of deaths to be added for above correction.	8,142	1,065	1,078	1,816	1,427	1,457	1,276 47.34 604	1,701	2,246 38.74 870	34.44	30.14	1,617	1,748 21.54 377
Deaths, if enumerated in months of occurrence	27,321	1,798	1,774	2,107	2,225	9,208	1,88	2,433	8,116	8,008	2,536	2,088	2,125
Per cent, of deaths to be added to equalize them to population at close of year. Deaths to be added to equalize them to population at close of year.	56 of 584	1.21	88. 38	3.51	8 6 8 5	18.39	8 8	2 10	1.76	Ĭ \$	1.06	년 포	8 °
Deaths, as corrected, equalized to population at close of year	27,915	1,874	1,842	2,181	2,295	2,271	1,926	2,484	8,171	8,137	2,563	2,049	2,132
Days and hundredthe by which the months should be increased or diminished to equalize them to months of uniform length. Number by which the deaths should be increased or diminished to equalize them to months of uniform length.	1 1	25 7	+ 2.44	83.	1 2 2 2 2	8 7	+ + 2 & 4 ×	8 9	8 5	÷ ÷	1 2 9	+ + \$	80. 88
Deaths, corrected and equalized, equalized to months of uniform length	27,913	98,	2,003	2,142	2,829	82,2	1,96,	85,4	8,114	8,188	2,307	2,079	2,088
													ĺ

. Excluding 68 in unknown month.

Exhibit D represents the months in order, those having the greatest number of deaths first, according to corrections for omissions in enumeration, for each of the years 1878-1881. The number of deaths and per cent. of the total, is also given, together with the average number and per cent. This exhibit may likewise be compared with Table II.

EXHIBIT D.—Deaths during the Years 1878 to 1881, inclusive, as Corrected for Omissions in the Enumeration, Exhibiting the Number and Per Cent. of Total, by Months arranged in Order by Number, Months having the greatest number first.

		1878.		1	1879.			1880.			1881.	
RDER.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.
0 8	Total	18,866	100,00	Total	20,583	100,00	Total	26,256	100.00	Total	27,387	100.00
1	Aug	1,968	10.43	Δug	2,129	10.84	Aug	2,803	10.88	Aug	3,116	11.38
2	Sept	1,863	9.87	Sept	1,884	9.15	Sept	2,532	9.64	Sept	3,093	11.29
3	Dec	1,700	9.01	Dec	1,847	8.97	July	2,502	9.53	Oct	2,526	9,22
4	Apr	1,676	8.88	Apr	1,827	8,88	Арг	2,359	8.98	July	2,433	8,88
5	Oct	1,593	8.44	Mar	1,782	8.66	Mar	2,176	8,29	Apr	2,225	8.19
6	Mar	1,560	8.27	July	1,690	8.21	Dec	2,133	8,12	May	2,209	8.07
7	Nov	1,524	8.08	Oct	1,672	8.12	Oct	2,128	8.10	Dec	2,125	7.76
8	July	1,509	8,00	May	1,639	7.96	May	2,060	7.85	Mar	2,107	7.68
9	May	1,459	7.73	Feb	1,629	7.92	Nov	2,055	7.83	Nov	2,035	7.48
10	Feb	1,362	7,22	Nov	1,594	7.74	Feb	1,962	7.47	June	1,880	6.87
11	June	1,833	7.07	Jan	1,522	7.40	June	1,764	6.72	Jan	1,798	6.57
12	Jan	1,295	6,86	June	1,327	6.45	Jan	1,739	6.62	Feb	1,774	6.48
	Unk	24	.13	Unk	41	.20	Unk	43	.16	Unk	66	.24
	Av a	1,572	8.33	Av	1,715	8.33	Δν	2,188	8.33	Av	2,282	8.33

a Including deaths in unknown month.

same Equalized for Increase of Population during the Year covered by the Returns, and the Deaths as thus Corrected and Equalized for the several Months, Equalized for Months of a uniform length of 30.44 days; also, indicating some of the EXHIBIT C.—Deaths in Michigan during the Year 1881, as Returned; as Corrected for Omissions in Enumerating, the steps by which these results have been reached

						A	Момтив, 1881.	3, 1881.					
	TOTAL.a	Jan.	Feb.	Mar.	April.	May.	Mar. April. May. June. July. Aug.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Deaths as returned by Registration Officers. Per cent, of deaths to be added for correction for time elapsing before enumeration. Number of deaths to be added for above correction.	8,143	1,065	1,078	1,315	1,427	1,457	1,276	1,701	2,246	2,301	1,941	1,617	1,748
Deaths, if enumerated in months of occurrence	27,321	1,798	1,774 2,107	2,107	2,235	2,209	1,880	9,483	3,116	3,003	2,526	2,035	2,125
Per cent, of deaths to be added to equalize them to population at close of year. Deaths to be added to equalize them to population at close of year.	2004	4.21	3.86	3.51	3.18	18.9	2.46	2.11	1.76	1.4	1.06	6.4	135.
Deaths, as corrected, equalized to population at close of year	27,915	1,874	1,842	2,181	2,295	2,271	1,926	2,484	3,171	8,137	2,553	2,049	2,189
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length. Number by which the deaths should be increased or diminished to equalize them to months of uniform length.	l ii	56 + 2.44	+ 2.44	56	+ 43 +	56	+.44	1.08	1.56	+.44	+.4456	+ .41	-39
Deaths, corrected and equalized, equalized to months of uniform length	27,913 1,840 2,003	1,840	2,003	2,142 2,329	2,329		2,230 1,954 2,439	2,439	3,114	8,114 8,183	2,507	2,079	2,093
The list in the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	1			1	1	1		1	1	-	1	1	1

4 Excluding 66 in unknown month.

TABLE IV.—Exhibiting, by Sex, and by Age in Periods of Years, the Number and Proportion of Persons Returned as having Died in Michigan during the Year 1881; also the Excess of Persons of each Sex.

AGES IN YEARS	Nu	MBER O	F DEAT	rus,	AT E	T. OF DACH ACH ACH ACH ACH ACH ACH ACH ACH ACH			TOTAL	EACH OF BOXES.		THE S	SEXES Y BER.	Maler
AND	Total.	Males.	Fe-	I'nk.	Total.	Males,	Fe.	Males	Fe-	Exc	ess.	Males.	Fe-	100 Fo-
PERIODS.			males.				males,		males	Males,	Fa.		males.	males
All Ages	19,238	10,263	8,910	65	100,00	100,00	100,00	53.53	46.47	7.06		1,353		115.1
Under 1	4,655	2,586	2,018	56	24.20	25,20	22.59	56.23	48,77	12,46		573		128.4
1 to 2	1,372	756	615	1	7.13	7.37	6,90	55.14	44.86	10.28		141		122.9
2 to 3	781	407	373	1	4.06	3.97	4.19	52.18	47.82	4.86		34		109.1
3 to 4	572	314	257	1	2.97	3.06	2,88	54.99	45,01	9,98		57	*****	122.1
4 to 5	436	233	, 203		2.27	2,27	2.28	53.44	46.56	6,58		30		114.5
Under 5	7,816	4,296	3,461	59	40,63	41.86	38.84	55.38	44.62	10,76		835		124.1
5 to 10	1,476	732	744		7.67	7.18	8,35	49.50	50.41		,82		12	98,3
10 to 15	822	400	422		4.27	3.90	4.74	48,66	51,31		2.68		22	94.7
15 to 20	827	379	418		4.30	3,69	5.03	45.83	54.17		8,34		69	84.6
20 to 25	968	483	485		5.03	4.71	5.44	49.90	50,10		,20		2	99.5
25 to 30	763	391	372		3.97	3.81	4.18	51.25	48,75	2.50		19		105.1
30 to 35	616	280	327		3.20	2.82	3.67	46.92	53,08		6.16		38	88.3
35 to 40	560	272	288		2.91	2.65	3.23	48.57	51.43		2.86		16	94.4
40 to 45	512	257	255		2.68	2.50	2.86	50.20	49.80	.40	****	2		100.7
45 to 50	492	254	238		2,56	2.47	2.67	51.63	48.37	3,26		16		106.7
50 to 55	508	299	200		2.64	2.91	2.35	58.86	41.14	17.72	*****	90		143.0
55 to 60	509	278	236		2.65	2.66	2.65	53.63	46.37	7.26		37		115.6
60 to 65	574	321	253		2.93	3.13	2.84	55.92	44.08	11.84	*****	68		126.8
65 to 70	562	330	232		2.92	3.22	2.60	58.72	41.28	17.44		98		142.9
70 to 75	649	390	250		3,37	8,80	2.91	60.09	39,91	20,18		131		150.5
75 to 80	581	330	251		3.02	3.22	2.82	56.80	43.20	13.60		79		131.4
80 to 85	430	245	185		2.24	2.39	2.08	56.98	43.02	13.96		60		132.4
85 to 90	193	108	85		1.00	1.05	,95	55,96	44.04	11.82		23		127,0
90 to 95	60	38	31		.36	.37	.34	55.07	44.93	10.14		7	*****	122.5
95 to 100	18	9	9		.00	.09	-10	50,00	50.00					100.0
100 and over	8	4	4		.04	.04	.04	50,00	50.00					100,0
Unk. Ages.	285	163	116	6	1.48	1.59	1.30	58,42	41.58	16.84		47		140.5

EXHIBIT E. - Deaths in Michigan during the Year 1881, as Returned, as Corrected for Omissions in Enumerating, and as thus Corrected, Equalized to Months of uniform length of 30.44 days each.

						N	MONTHS, 1881.	3, 1881.					
Section of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the las	TOTAL,	Jan.	Feb.	Mar.	April.	May.	June.	July.	Jan. Feb. Mar. April, May. June, July, Aug. Sept. Oct. Nov. Dec.	Sept.	Oct.	Nov.	Dec.
Seaths as returned by Registration Officers. A 19,172 1,065 1,078 1,315 1,427 1,457 1,701 2,346 2,301 1,941 1,617 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	a 19,172	1,065	1,078	1,315	1,427	1,457	1,276	1,701	1,315 1,427 1,467 1,276 1,701 2,246 2,301 60.24 55.94 51.64 47.34 43.04 38.74 84.44 779 799	2,301	1,941	1,617	1,748
Deaths, if enumerated in month of occurrence.		1,798	1,774	2,107	2,935	2,209	1,880	2,433	3,116	8,093	2,528	2,035	2,125
Days and hundredths by which the months should be increased or diminished to equalize then to months of uniform length. Number by which the deaths should be increased or diminished to equalize them to months of uniform length.	1 17	32	+ 2.44	1.56	+.4	1.56	+.41	56	-36 +2.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456393939	+.4	56	+.44	1.56
Deaths, corrected and equalized to months of uniform length	27,318 1,706 1,929 2,000 2,238 2,167 1,908 2,339 3,000 3,138 2,480 2,065	1,766	1,929	2,069	2,258	2,16)	1,908	2,389	8,060	8,138	2,480	2,065	2,087

. Excluding 66 in unknown month.

AGES OF PERSONS WHO DIED IN MICHIGAN IN 1881.

the females, being greatest between the ages of fifteen and twenty years, a fact that has considerable significance. The greatest number of deaths occurred among infants under one year of age. Further details upon this subject are shown in Exhibit F. The number and per cent. of deaths at different periods of life that occurred during each month in 1881 are Table IV. shows the number and per cent, of deaths in Michigan in 1881, according to age and sex. Of the deaths at all ages, there were about 7 per cent. more males than females. Under five years of age the per cent, of deaths was considerably greater among the males. Between the ages of five and twenty-five years there was an excess of deaths among shown in Exhibit G.

TABLE IV.—Exhibiting, by Sex, and by Age in Periods of Years, the Number and Proportion of Persons Returned as having Died in Michigan during the Year 1881; also the Excess of Persons of each Sex.

AGES IN YEARS	No	MBER O	F DEAT	гиз,	AT E	ACH ACH ACH ACH ACH ACH	GE TO		CT. OF TOTAL SEX			THE S	SEXES Y BER.	Males
AND	Tatal	Males	Fo.	Unk.	Total	Males	Fe-	Males.	Fe-	Exc	ess.	Males.	Fe-	100 Fe-
PERIODS.	Total.	Males.	mates,	Vuk.	rotal.	Males,	males.	Marcs.	males	Males,	Fe- males.	maios.	males.	males
All Ages	19,238	10,263	8,910	65	100,00	100.00	100,00	53.53	46.47	7.06		1,353		115.19
Under 1	4,655	2,586	2,018	56	24.20	25,20	22,59	56.23	43.77	12.46		573		128.46
1 to 2	1,372	756	615	1	7.13	7.37	6.10	55.14	44.86	10,28		141		122.93
2 to 3	781	407	373	1	4.06	3.97	4.19	52.18	47.82	4.36		34		109.1
3 to 4	572	314	257	1	2.97	3.06	2,88	54.99	45.01	9,98		57	*****	122.1
4 to 5	436	233	. 203		2.27	2.27	2.28	53.44	46.56	6.58		30		114.58
Under 5	7,816	4,296	3,461	59	40,63	41.86	38.84	55.38	44.62	10.76		835		124.1
5 to 10	1,476	732	744		7.67	7.13	8,35	49.59	50.41		.82		12	98,3
10 to 15	822	400	423		4.27	3,90	4.74	48.66	51,31		2.68		22	94.7
15 to 20	827	379	418		4,30	3,69	5.03	45.83	54.17		8.34		69	84.6
20 to 25	968	483	485		5.03	4.71	5.44	49,90	50.10		.20		2	99.5
25 to 30	763	391	372		3.97	3,8)	4.18	51.25	48.73	2.50		19		105.1
30 to 35	616	289	327		3.20	2.82	3.67	46,92	53.08		6.16		38	88,3
85 to 40	560	272	288		2.91	2.65	3,23	48.57	51.43		2.86		16	94.4
40 to 45	512	257	255		2.66	2.50	2.86	50.20	49.80	.40		2		100.7
45 to 50	492	254	238		2,56	2.47	2.67	51,63	45.37	3,26		16		106.7
50 to 55	508	299	209		2.64	2.91	2.35	58.86	41.14	17.72		90		143.0
55 to 60	500	278	236		2.65	2.66	2.65	53.63	46,37	7.26		37		115.6
60 to 65	574	321	253		2.93	3.13	2.84	55.92	44.09	11.84		68		126.8
65 to 70	562	330	232		2.92	3.22	2,60	58.72	41.28	17.44		98		142.2
70 to 75	649	390	259		3,37	3,80	2.91	60.09	39,91	20.18		131		150.5
75 to 80	581	330	251		3.02	3,22	2.82	56.80	43.20	13.60		79		131.4
80 to 85	430	245	185		2.24	2.39	2.08	56.98	43.02	13.96		60		132.4
85 to 90	193	108	85		1.00	1.05	.95	55.96	44.04	11.82		23		127.0
90 to 95	60	38	31		.36	.37	.34	55.07	44.98	10,14		7		122.5
95 to 100	18	9	9		.09	.09	.10	50.00	50.00					100,0
100 and over	8	4	4	*****	.04	.04	.04	50.00	50.00			*****		100,00
Unk. Ages.	285	163	116	6	1.48	1.59	1.30	58.42	41.58	16.84		47		140.5

316 EXHIBIT G - The Belation of the Deaths at Different Periods of Aue to Deaths at All Ages, by Mouths; and for the same

NO WIRE OF A PARTY OF	SEAST TO SUCTAGE WE SEE	YEAB,					×	UNTHO	8, 1881	•				
A 1d calad	THE PRINCES OF LEADING	1831.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
All Ages.		19,172	1,065	1,078	1,315	1,427	1,437	1,276	1,701	2,246	2,301	1,941	1,617	1,748
	Number	4,646	249	366	802	253	787	839	527	365	120	418	186	808
Under 1	Per Cent. of All Ages	21.23	23.33	24.68	22.68	17.73	19.49	25.24	30.98	33.84	26.53	21.50	17 87	21.03
	Per Cent. of Deaths, 1981	100.00	98.3	5.73	6.41	5.45	6.11	6.93	11.34	16.36	13.15	9.03	6.22	7.92
	(Number	1,804	604	430	493	53	984	247	830	1,207	1,036	141	537	613
Under 5	Per Cent. of All Ages	40.71	38.40	39.80	87.49	31.89	33.36	42.88	48.79	53.74	45.02	38.18	34.45	36.07
_	Por Cent. of Deaths, 1881	100.00	5.24	5.51	6.32	5 .83	6.23	7.01	10.64	15.47	13.27	9.49	7.14	7.85
	(Numbor	1,475	Š	20	20,	55	151	76	114	131	1:12	781	Ξ	148
6 to 10	Per Cont. of All Ages	7.60	8.64	6.49	5.83	7.36	8.30	7.37	6.70	5.83	8.58	9.48	8.73	8.47
	Per Cent. of Doaths, 1881	100.00	6.24	4.75	5.20	7.18	8.20	6.37	7.73	88.88	13.38	12.47	9.26	10.03
_	(Number	1,645	ಪ	72	107	#	144	101	134	154	19-2	808	168	167
10 to 20.	Per Cent, of All Agos	8.58	7.80	6.68	8.34	10.00	98.6	7.93	7.88	5.97	8.34	10.72	10.39	6.93
_	Por Cont. of Deaths, 1881	100.00	6.11	4 .38	6.51	8.75	8.75	6.14	8.15	8.15	11.67	19.64	10.21	9.54
	(Number	8,901	822	235	253	307	316	267	283	352	408	297	387	88
20 to 50	Per Cent, of All Ages	20.35	21.41	21.80	21.52	21.51	23.75	20.92	17.34	15.67	17.66	20.45	23.93	22.77
	Per Cent. of Deaths, 1881	100.00	5.83	6.03	7.38	7.87	8.87	6.84	7.56	9.03	10.41	10.18	9.03	10.30
	(Number	4,089	ន	261	333	893	346	256	804	384	433	88	845	413
50 and over	Per Cent. of All Ages	21.32	21,69	24.21	23.28 28.28	27.47	23.76	90.06	17.87	17.10	18.90	50.04	21.34	23. 83.
_	Per Cent. of Doaths, 1881	100.00	5.63	8,9	8.12	9.50	8.46	6.26	7.44	9.39	10.64	9.52	8.44	10.10
	Number	528	5	2	왉	75	7	=	ಷ	88	8	81	8	19
Unknown Ages PerCent.	Per Cent. of All Ages	1.85	1.97	8.	1.67	1.08	86.	86.	1.41	1.69	1.53	1.13	1.18	1.00
	Per Cont. of Deaths, 1881	100,00	8.11	88	or a	0.07		1 98	600	:	:	9	i	

TABLE V.—Exhibiting, by Sex and by Age in Periods of Years, the Number of Persons Returned as having Died in Michigan during the Year, and in each Month of the Year 1881.

AGES IN PERIODS OF YEARS.	SEX.	YEAR,														
		1881.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.	
1	Total	19,238	1065	1078	1315	1427	1457	1276	1701	2246	2801	1941	1617	1748	66	
Marine Control	Males	10,263	552	562	732	803	787	673	921	1198	1226	997	895	927	40	
All Ages	Females	8,910	508	500	580	624	714	598	771	1038	1071	943	717	811	26	
	Unknown	65	5	7	3		6.	5	9	10	4	1	5	10		
	Total	4,655	249	266	298	253	284	322	527	760	611	419	289	368	9	
	Males	2,586	128	152	180	157	146	181	296	424	332	226	161	196	7	
All Under 1	Females	2,013	117	109	116	96	132	137	222	330	275	192	123	162	2	
	Unknown	56	4	5	2		6	4	.0	6	4	1	5	10		
	Total	7,816	409	430	493	455	486	547	\$30	1207	1036	741	557	613	12	
All Fradons	Males	4,296	211	233	293	277	252	30%	460	65<	568	389	301	340	8	
All Under 5	Females	3,461	193	191	198	178	228	239	361	543	464	351	248	263	4	
	Unknown	59	5	6	2		6	5	9	6	4	1	5	10		
	Total	1,476	92	70	78	105	121	94	114	131	197	184	141	148	3	
5 to 10	Males	782	47	28	39	62	66	46	50	65	104	99	66	59	1	
	Females	744	45	42	39	43	55	48	64	66	93	85	75	89		
- (- ()	Total	822	39	35	45	65	66	49	71	72	100	105	98	73	4	
10 to 15	Males	400	19	10	22	31	25	-30	39	35	52	50	44	34	3	
	Females	4.22	20	19	23	31	41	19	32	37	48	55	54	39	1	
15 10 20	Total	827	45	37	62	79	78	52	63	62	92	103	70	84	****	
	Males	379	16	17	30	43	36	22	31	20	37	43	42	4:		
	Females	448	29	20	32	36	42	30	32	42	55	60	28	42		
	Total	968	50	60	76	75	72	53	GO	86	120	120	101	94	1	
20 to 25	Males	483	24	32	38	42	33	21	20	42	65	56	58	51	1	
	Females	485	26	28	38	33	39	32	40	41	55	64	43	43		
	Total	763	36	48	45	45	72	61	75	61	75	77	81	82	2	
25 to 30	Males	391	16	17	25	28	27	32	40	31	39	39	52	44	1	
	Females	372	20	31	20	20	45	29	35	30	36	38	29	38	3	
30 to 35	Total	616	30	33	50	54	52	40	-57	54	61	54	65	56	4	
	Males	289	20	12	22	27	25	15	26	31	24	16	39	26	1	
	Females	327	10	21	28	27	27	25	31	23	37	35	26	30	3	
	Total	560	35	38	32	48	50	35	43	46	58	58	58	61	3	
35 to 40	Males	279	24	17	13	22	23	17	15	19	26	27	37	32		
	(Females	288	8	21	19	26	27	18	28	27	32	31	21	29	1	
	[Total	519	41	28	41	41	41	43	28	56	43	43	47	61	1	
10 to 45	Males	257	21	11	22	17	23	20	15	25	26	23	21	33	7220	
	Females	255	12	19	10	24	21	23	13	31	17	20	26	28	1	

TABLE V.—Continued.—Deaths by Periods of Age, by Sex, by Months.

A GRA AV PRPSSSS								Mon	THS,	1881.					
AGES IN PERIODS OF YEARS.	SEX.	YEAR, 1881.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Bept.	Oet.	Nov.	Dec.	Unk.
	Total	492	-	33	39	41	56	35	32	49	49	45	35	44	1
45 to 50	Males	254	14	18	26	28	27	16	17	27	18	18	19	25	1
	Females	238	19	15	13	13	29	19	15	22	81	27	16	19	
,	Total	508	27	29	45	52	46	33	42	41	55	43	40	55	
50 to 55	Males	299	12	21	31	37	23	16	25	29	28	25	24	28	-
{	Females	209	15	8	14	15	23	17	17	12	27	18	16	27	
إ	Total	509	21	29	41	52	44	26	40	43	55	49	47	48	1
55 to 60	Males	273	13	21	22	25	19	15	27	22	29	24	26	26	
į	Females	236	8	18	19	27	25	11	13	21	26	25	21	22	
(Total	574	32	37	44	44	57	38	49	59	47	56	47	61	1
50 to 65	Males	321	15	21	28	23	31	25	25	32	97	83	26	38	:
{	Females	253	17	16	21	21	26	13	24	27	20	23	21	23	1
(Total	562	29	40	40	52	57	38	31	47	60	60	53	54	
85 to 70	Males	330	12	26	22	30	38	20	24	31	42	32	23	30	
Į	Females	232	17	14	18	93	19	18	7	16	18	28	30	24	1
ſ	Total	649	48	41	53	63	59	46	52	60	57	64	44	57	1
70 to 75	Males	390	27	25	28	39	36	27	27	45	35	39	30	30	1
\	Females	259	21	16	25	26	23	19	25	15	22	25	14	27	,
ſ	Total	581	33	40	43	55	35	31	33	65	71	54	54	63	1
/5 to 80	Males	330	25	23	26	26	24	15	25	31	29	35	30	40	,
Į.	Females	251	8	17	17	29	11	16	8	34	42	19	24	26	
ſ	Total	430	28	20	36	-45	31	29	36	48	53	29	36	38	1
30 to 85	Males	245	18	10	21	21	13	18	25	24	28	16	25	25	1
{	Females	185	10	10	15	24	18	11	11	24	25	13	11	13	
(Total	193	6	8	18	20	8	11	14	15	28	23	19	23	
5 to 90	Males	103	3	5	12	10	4	6	7	9	21	14	10	7	
Ę	Females	85	3	3	6	10	4	5	7	6	7	9	9	16	
(Total	69	5	6	10	5	7	3	5	3	7	9	3		
0 to 95	Males	38	2	3	4	4	2	2	4	2	4	4	3	4	
ł	Females	31	3	3	6	1	5	1	1	1	3	5		2	
ſ	Total	18	1		1	2	1	1	2	3	1	2	1	3	
5 to 100	Males	9		****				1	2	2		1	1	2	
Į.	Females	9	1		1	9	1			1		1		1	
ſ	Total	8	1	1	1		1						1		
00 and over	Males	4	1		1		1					Ц	1		
· · · · · · · · · · · · · · · · · · ·	Females	4		1						**				2	
ſ	Total	285	21	10	22	24	14	11	24	38	32	22	19	19	26
	Males	163	12	6	12	11	D	6	17	18	24	11	14	11	12
Unknown	Females	116	9	3	9	13	5	5	7	10	11	11	5	8	14
	Unknown	6		3	1					4					

TABLE V.—Exhibiting, by Sex and by Age in Periods of Years, the Number of Persons Returned as having Died in Michigan during the Year, and in each Month of the Year 1881.

AGES IN PERIODS		YEAR,					D	IONT	ня,	1881.					
OF YEARS.	SEX.	1881.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk,
	Total	19,238	1065	1078	1315	1427	1457	1276	1701	2246	2801	1941	1617	1748	6
THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S	Males	10,263	552	562	732	803	737	678	921	1198	1226	997	895	927	
All Ages	Females	8,910	508	500	580	4124	714	598	771	1038	1071	943	717	811	5
1000	Unknown	65	5	7	3		6	5	9	10	4	1	5	10	
	Total	4,655	249	266	298	253	284	322	527	760	611	419	289	368	-
	Males	2,586	128	152	180	157	146	181	298	424	332	226	161	196	
All Under 1	Females	2,013	117	109	116	96	132	137	222	330	275	192	128	162	
	Unknown	56	4	5	2		6	4	9	6	4	1	5	10	-
	Total	7,816	409	430	493	455	486	547	\$30	1207	1036	741	557	613	10
All Under 5	Males	4,296	211	233	203	277	252	803	460	65-	568	389	301	340	
arr onder o	Females	3,461	193	191	1118	178	228	239	361	543	464	351	248	263	1
	Unknown	29	5	6	2		6	5	9	6	4	1	5	10	
	Total	1,476	92	70	78	105	121	94	114	131	197	184	141	148	0
to 10	Males	782	47	28	39	62	66	46	50	65	104	99	66	59	r
	Females	744	45	42	39	43	55	48	64	-66	93	85	75	89	
	Total	822	39	35	45	65	66	49	71	72	100	105	98	73	
o to 15	Males	400	-	16	22	31	25	30	39	85	52	50	-44	34	
	Females	422	20	19	23	31	41	19	32	37	48	55	54	89	
	Total	827	45	1 12	62	79	78	52	63	62	92	103	70	84	
5 to 20	Males	379		13	30	43	36	22	31	20	37	43	42	4.	
	Females	448	29	20	82	36	42	30	32	42	55	60	28	42	-
	Total	968	50	60	76	75	72	53	60	86	120	120	101	94	
0 to 25	Males	483			38	42	33	21	20	42	65	56	58	51	
	Females	485			38	33	-	32	40	41	55	64	43	43	
	Total	763	1		1 10		72	61	75	61	75	77	81	82	
5 to 30	Males	391			25	28		32	40	135	39	39		44	1
	[Females	372	1		20	20		29	35	30	36	28		38	
	[Total	616		1 33	50	54	52	40	57	54	61	54	65	50	
0 to 35	Males	289			22	27	25	15	26	31	24	19		26	1
	(Females	327			28	27	27	25	31	93	37	35	26	30	
	Total	560		13		48	10		43	40	58	58	58	61	
55 to 40	Males	272		1 3	13	22	23	17	15	19	1	27	37	32	
		288	1	1	19	26		18	28	27	32	31	21	29	
		512			1 13	41	41	43	28	36	-	43	47	61	
		257		1 00	22	17	23	20	15	25	26	23	21	33	
		'55	02.	12	19	24	21	23	13	31	17	20	26	28	

TABLE V .- CONTINUED .- Deaths by Periods of Age, by Sex, by Months.

AGES IN PERIODS		YEAR,	_					Mon	тив,	1881.					
OF YEARS.	Sex.	1881.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Total	492	33	33	39	41	56	35	32	49	49	45	35	44	1
45 to 50	Males	254	14	18	26	28	27	16	17	27	18	18	19	25	1
	Females	238	19	15	13	13	29	19	15	22	81	27	16	19	
	Total	508	27	29	45	52	46	33	42	41	55	43	40	55	
50 to 55	Males	299	12	21	31	37	23	16	25	29	28	25	24	28	
	Females	209	15	8	14	15	23	17	17	12	27	18	16	27	
1	Total	509	21	39	41	52	41	26	40	43	55	49	47	48	1
55 to 60	Males	273	18	21	22	25	19	15	27	22	29	24	26	26	1
	Females	236	8	18	19	27	25	11	13	21	26	25	21	22	
. (Total	574	32	37	44	44	57	38	49	59	47	56	47	61	3
60 to 65	Males	321	15	21	28	23	31	25	25	32	27	33	26	38	9
1	Females	253	17	16	21	21	26	13	24	27	20	23	21	23	1
(Total	562	29	40	40	52	57	38	31	47	60	60	53	54	
65 to 70	Males	330	12	26	22	80	38	20	24	31	42	32	23	30	
	Females	232	17	14	18	22	19	18	7	16	18	28	30	24	
1	Total	649	48	41	53	65	59	46	52	60	57	64	44	57	3
70 to 75	Males	390	27	25	28	89	36	27	27	45	35	39	30	30	9
1	Females	259	21	16	25	26	23	19	25	15	99	25	14	27	0
- (Total	581	33	40	43	55	35	31	33	65	71	54	54	63	1
75 to 80	Males	330	25	23	26	26	24	15	25	31	29	35	30	40	1
	Females	251	8	17	17	29	11	16	8	34	42	19	24	26	
1	Total	430	28	20	36	45	31	29	36	48	53	29	36	38	1
80 to 85	Males	245	18	10	21	21	13	18	25	24	28	16	25	25	1
	Females	185	10	10	15	24	18	11	11	24	25	13	11	13	
(Total	193	6	8	18	20	8	11	14	15	28	23	19	23	
85 to 90	Males	108	3	5	12	10	4	6	7	9	21	14	10	7	
The second second	Females	85	3	3	6	10	4	5	7	6	7	9	9		
	Tota1	69	5	6	10	5	7	3	5	3	7	9	3	6	
90 to 95	Males	38	2	3	4	4	2	2	4	2	4	4	3	4	
1	Females	31	3	3	6	1	5	1	1	1	3	5		2	
	Total	18	1		1	2	1	1	2	3	1	2	1	3	
95 to 100	Males	9						1	2	2		1	1	2	-
	Females	9	1		1	2	1		***	1	1	1	****	1	
	Total	8	1	1	1		1				1		1	2	
100 and over	Males	4	1		1		1						1		
	Females	4		1							1			2	
	Total	285	21	10	22	24	14	11	24	38	35	22	19	19	10
Allen and	Males	163	12	6	12	11	9	6	17	18	24	11	14	11	72
Unknown	Females	116	9	3	9	13	5	5	7	16	11	11	5	8	14
	Unknown	6		1					10.7	4					-

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES	20	YEAR,						MONT	ня, 188	81.					
YEARS.	SEX.	1881.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oet.	Nov.	Dec.	Unk.
1	Total	180	6	9	10	10	18	14	14	17	14	22	29	17	
11	Males	93	3	5	4	5	10	8	S	8	7	10	16	9	
	Females.	87	3	4	6	5	8	6	6	9	7	12	13	8	
(Total	157	7	8	9	11	9	10	10	16	27	20	13	16	
13	Males	84	4	3	5	6	4	8	9	9	12	8	6	9	
1	Females.	73	3	5	4	5	5	2	1	7	15	12	7	7	
1	Total	150	7	5	12	11	15	5	12	11	15	20	25	11	
13	Males	70	3	3	5	5	5	3	5	4	7	10	12	7	
1	Females .	80	4	2	7	6	10	2	7	7	8	10	13	4	-
1	Total	158	7	4	11	18	11	7	. 13	16	18	20	18	13	
14	Males	70	5	1	7	8	2	5	7	9	7	8	6	4	
(Females	,88	2	3	4	10	9	2	6	7	11	12	12	9	
1	Total	117	12	2	16	11	6	6	8	5	11	20	n	9	
15	Males	47	4	2	8	7	3	2	4	1	4	5	6	1	
	Females.	70	8		8	4	3	4	4	4	7	15	5	8	
(Total	168	11	14	11	11	17	10	14	13	26	181	8	15	
16	Males	65	3	5	6	8	6	4	4	3	12	6	3	5	
1	Females	103	8	9	5	3	11	6	10	10	14	12	5	10	
1	Total	159	7	7	7	15	18	12	13	19	15	16	12	18	
17	Males	72	5	2	4	8	9	6	5	8	5	5	7	8	
	Females .	87	3	5	3	7	9	6	8	11	10	11	5	10	
- 1	Total	165	9	4	13	21	20	10	11	11	16	15	18	17	
15,	Males	86	2	2	7	10	11	3	5	4	7	7	12	13	
	Females.	79	7	2	6	11	9	7	3	7	9	8	6	4	
1	Total	218	6	10	15	21	17	14	17	14	24	34	21	25	
19	Males	109	2	6	5	10	7	7	10	4	9	20	14	15	
	Females.	109	4	4	10	11	10	7	7	10	15	14	7	10	
7	Total	199	10	13	17	12	11	8	17	11	31	26	20	23	
20	Males	97	7	3	6	9	6	3	5	1	21	13	13	10	
1	Females.	102	3	10	11	3	5	5	12	10	10	13	7	13	
1	Total	179	9	7	16	16	11	11	9	18	17	24	27	13	
21	Males	85	3	4	8	10	4	5		7	7	11	16	9	
A	Females.	94	6	3	8	6	7	6	9	11	10	13	11	4	
4	Total	212	13	15	16	21	20	11	10	21	25	24	16	20	
22	Males	107	5	9	9	10	6	5	5	11	11	12	11	13	
1	Femnies.	105	8	6	7	11	14	6	5	10	14	12	5	7	

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES		YEAR,						Mont	115, 18	31.					
YEARS.	SEX.	1881.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1	Total	154	5	3	9	11	9	11	19	36	25	12	8	6	
10-12	Males	91	3	2	5	7	2	7	11	25	15	5	6	3	
1	Females .	63	2	1	4	4	7	4	8	11	10	7	2	3	<u> </u>
1	Total	192	4	13	14	5	11	5	32	39	27	22	7	13	ı
11-12	Males	99	1	5	9	4	3	2	21	21	13	11	3	6	
(Females.	93	3	8	5	1	۱ 8	3	11	18	14	11	٠.	6	
(Total	1,372	64	54	81	69	69	90	156	229	246	136	88	85	
, ,	Males	756	83	27	48	46	36	45	84	117	142	80	50	47	ļ
	Females.	615	31	27	36	23	33	44	72	112	104	56	38	33	
į	Unknown	1						1							
1	Total	781	41	43	59	53	53	67	61	116	79	72	65	67	
	Males	407	14	27	31	37	26	83	32	64	45	30	29	80	
	Females.	373	27	20	28	16	27	84	29	52	84	42	36	28	
į	Unknown	1		1		• • • • • •	•••••		•						
1	Total	572	28	35	82	43	45	47	53	64	64	52	56	52	
3	Males	314	18	17	23	24	25	30	29	35	29	20	34	81	
	Females.	257	9	18	10	19	20	17	24	29	35	32	22	21	
į	Unknown	1	1				•••••		•						
1	Total	436	27	27	20	37	85	21	33	88	86	62	59	41	
4∤	Males	233	18	10	12	13	19	14	19	18	20	33	30	27	
(Females.	203	9	17	8	24	16	7	14	20	16	29	29	14	
(Total	398	27	20	20	30	87	21	32	34	50	47	45	35	
5	Males	196	10	9	13	16	18	7	13	20	25	25	21	19	
(Females.	202	17	11	7	14	19	14	19	14	25	22	:4	16	
1	Total	303	20	12	22	26	20	27	19	24	39	27	30	37	
6	Males	143	10	4	9	16	10	12	6	11	21	14	15	15	}
	Females.	160	10	10	13	10	10	15	13	13	18	13	15	22	
_	Total	309	17	13	16	11	30	17	25	39	44	42	29	25	
7	Males	158	10	6	8	7	18	10	15	21	21	24	9	8] :
	Females.	151	7	7	8	4	12	7	10	18	23	18	:0	17	
_	Total	249	17	13	14	50	17	17	15	21	34	33	22	26	
8	Males	128	11	4	7	13	10	10	5	8	19	18	13	10	
•	Females.	121	6	0	7	7	7	7	10	13	15	15	9	16	
_ {	Total	217	11	12	İ	18	17	12	23	13	30	35	15	25	
7	Males	107	6	5	<u>2</u> .	10	10	7		5	18	18	8	7	
1	Females.	110	5	7	4	8	7	5	12	8	12	17	7	18	- -
	Total	177	12	9	3	15	13	13		12	26	23	13	16	
10	Males	83	4	4]	7	4	6	10	5	19	14	4	5	
	(Females.	94	8	5	2	8	9	7	12	7	7	9	9	11	

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES		YEAR.						Mont	тв, 188	1.					
YEARS.	SEX.	1881.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oet.	Nov.	Dec.	Unk
1	Total	180	6	9	10	10	18	14	14	17	14	22	29	17	
11	 { Males	93	3	5	4	5	10	8	8	8	7	10	16	9	
	 Females_	87	3	4	6	5	8	6	6	9	. 7	12	13	8	
1	Total	157	7	8	9	11	9	10	10	16	27	20	13	16	
13	Males	84	4	3	5	6	4	8	9	9	12	8	6	9	
	Females.	73	3	5	4	5	5	2	1	7	15	12	7	7	
	Total	150	7	5	12	11	15	5	12	11	15	20	25	11	1
13	Males	70	3	3	5	5	5	3	5	4	7	10	12	7	
	Females.	80	4	2	7	6	10	2	7	7	8	10	13	4	
1	Total	158	7	4	11	18	11	7	13	16	18	20	18	13	1
14	Males	70	5	1	7	8	2	5	7	9	7	8	6	4	
	Females	83	2	3	4	10	9	2	6	7	11	12	12	9	
	Total	117	12	2	16	11	6	6	8	5	11	20	11	9	
15	Males	47	4	2	8	7	3	2	4	1	4	5	6	1	
	Fomales.	70	8		8	4	3	4	4	4	7	15	5	8	
	Total	168	11	14	11	11	17	10	14	13	26	181	8	15	
16	Males	65	3	5	6	8	6	4	4	3	12	6	3	5	
	Females	103	8	9	5	8	11	6	10	10	14	12	5	10	
1	Total	159	7	7	7	15	18	12	13	19	15	16	12	18	
17	Males	72	5	2	4	8	9	6	5	8	5	5	7	8	
	Females_	87	2	5	3	7	9	6	8	11	10	11	5	10	
	Total	165	9	4	13	21	20	10	11	11	16	15	18	17	
18	Males	86	2	2	7	10	11	3	8	4	7	7	12	13	
	Females.	79	7	2	6	11	9	7	3	7	9	8	6	4	
1	Total	218	6	10	15	21	17	14	17	14	24	34	21	25	
19	Males	109	2	6	5	10	7	7	10	4	9	20	14	15	
1	Females.	109	4	4	10	11	10	7	7	10	15	14	7	10	
1	Total	199	10	13	17	12	11	8	17	11	31	26	20	23	
20	Males	97	7	3	6	9	6	3	5	1	21	13	13	10	
i	Females.	102	3	10	11	3	5	5	12	10	10	13	7	13	
	Total	179	9	7	16	16	11	11	9	18	17	24	27	13	l R
21	Males	85	3	4	8	10	4	5		7	7	11	16	9	١.
1	Females .	94	6	3	8	6	7	6	9	11	10	13	11	4	
1	Total	212	13	15	16	21	20	11	10	21	25	24	16	20	
22	Males	107	5	9	9	10	6	5	.5.	11	11	12	1)	13	
1	i (Femal es .	105	8	6	7	11	14	6	5	10	14	12	5	7	

EXHIBIT E.—Deaths in Michigan during the Year 1881, as Returned, as Corrected for Omissions in Enumerating, and as thus Corrected, Equalized to Months of uniform length of 30.44 days each.

						A	MONTHS, 1881,	8, 1881					
	TOTAL.	Jan.]	Feb.	Mar.	April.	May.	June.	July.	Feb. Mar. April. May. June. July. Aug. Sept. Oct.	Sept.	Oct.	Nov. Dec.	Dec.
Deaths as returned by Registration Officers. Per cent, of deaths to be added for correction for time clapsing before connection.	* 19,172	1,065	1,078	1,315	1,427	1,427 1,457 55.94 51.64	1,976	1,976 1,701	2,246	2,246 2,301 38.74 34.44	1,941	1,617	1,748
Number of deaths to be added for above correction	8,149	733	969	792	798	752	109	732	870	793	583	418	778
Deaths, if enumerated in month of occurrence.	27,321 1,798 1,774 2,107 2,225 2,209 1,880 2,433 3,116 3,093 2,526	1,798	1,774	2,107	2,225	2,209	1,830	2,433	3,116	3,093	2,526	2,035	2,125
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length. Number by which the deaths should be increased or diminished to equalize them to months of uniform length.	1 7	32 - 36	+ 155	138	+.44	100	+.44	1.56	-36 +24456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.4456 +.	+.44	1.56	+.44	1.06
Deaths, corrected and equalized to months of uniform length	27,318 1,766 1,929 2,068 2,258 2,167 1,908 2,850 3,060 3,138 2,480 2,065	1,766	1,929	2,003	2,258	2,167	1,908	2,330	3,060	3,138	2,480	2,065	2,087

* Excluding 66 in unknown month.

AGES OF PERSONS WHO DIED IN MICHIGAN IN 1881.

greatest number of deaths occurred among infants under one year of age. Further details upon this subject are shown in Exhibit F. The number and per cent. of deaths at different periods of life that occurred during each month in 1881 are Table IV. shows the number and per cent. of deaths in Michigan in 1881, according to age and sex. Of the deaths at all ages, there were about 7 per cent. more males than females. Under five years of age the per cent. of deaths was considerably greater among the males. Between the ages of five and twenty-five years there was an excess of deaths among the females, being greatest between the ages of fifteen and twenty years, a fact that has considerable significance. shown in Exhibit G.

TABLE. VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES		YEAR.	l					Mont	пв, 18	31.					
IN YEARS.	SEX.	1881.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Total	132	10	12	10	10	11	9	8	14	10	8	14	16	
15	Males	67	7	10	4	4	3	5	2	- 6	5	4	11	6	
	Females.	€5	3	2	6	6	8	4	6	8	5	4	3	10	
1	Total	125	8	6	5	12	11	6	7	13	23	14	12	8	
ß	Males	60	6	1	1	5	5	3	5	5	11	8	5	5	
	Females.	65	2	5	4	7	6	3	2	8	12	6	7	3	
1	Total	116	3	6	5	9	10	8	10	8	12	14	17	13	ı
7	Males	59	2	2	2	5	6	6	3	2	5	8	12	6	١
	Females.	57	1	4	3	4	4	2	7	6	7	6	5	7	
	Total	99	5	8	8	11	8	7	10	6	3	11	7	15	
8	Males	43	5	1	5	5	2	1	2	3		5	3	11	
	Females.	56		7	3	6	6	6	8	3	3	6	4	4	
(Total	88	6	6	4	6	10	5	8	5	10	11	8	9	١,
9	Males	43	4	3	1	3	7	2	3	3	5	2	6	4	
i	Females.	45	2	3	3	3	3	3	5	2	5	9	2	5	-
4	Total	180	6	6	9	9	10	14	5	12	16	12	14	17	-
0	Males	63	1	1	5	3	2	7	1	6	18	8	8	8	
į	Females.	67	5	5	4	6	8	7	4	6	3	4	6	9	
1	Total	98	9	3	6	12	8	10	7	11	3	5	12	12	
1	Males	54	4	2	5	6	5	4	5	6	1	5	3	8	
1	Females.	44	5	1	1	6	3	6	2	5	2		9	4	-
(Total	114	8	5	11	4	11	11	6	13	10	9	11	14	
3	Males	54	4	2	7	1	7	4	4	3	6	2	7	7	
ļ	 Females .	60	4	3	4	3	4	7	2	10	4	7	4	7	1
	Total	90	11	7	5	6	9	5	7	12	6	5	6	11	
3	Males	49	8	6	1	2	5	3	4	5	4	2	1	8	-
į	Females.	41	3	1	4	4	4	2	3	7	2	3	5	3	
ļ	Total	80	7	2	10	10	6	3	3	8	8	12	4	7	-
4	Males	37	4		4	5	4	2	1	5	9	6	2	2	
	Females.	48	3	2	6	5	2	1	2	3	6	6	2	5	-
(Total	118	10	8	11	4	13	8	5	8	13	14	7	16	ı
5	Males	66	5	4	6	3	4	4	3	4	9	9	5	9	
	Females .	52	5	4	5	1	9	4	2	4	4	5	2	7	
	Total	80	7	4	8	9	n	5	2	8	9	4	g.	7	
	l 16	- 44	1	4	6	9	5	1	1	5	4	2	2	4	
	100.	36	8		2		6	4	1	3	5	2	4	3	

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

AGES		YEAR,						Мохт	из, 198	1.					
IN YEARS.	SEX.	1881.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	γαĝ.	Bept.	Oct.	Nov.	Dec.	Unk.
	Total	112	4	7	10	6	9	8	14	13	9	10	14	12	1
71	Males	63	1	8	4	4	4	2	7	9	9	5	10	4	1
{	Females	49	3	4	6	2	5	1	7	4		5	4	8	
(Total	120	12	5	12	13	8	8	7	18	16	8	2	10	1
73	Males	67	6	4	9	8	8	4	2	13	9	3	1	5	
· · · · · · · · · · · · · · · · · · ·	Females.	53	6	1	8	5	5	4	5	5	7	5	1	5	1
ſ	Total	- 148	9	13	15	21	11	11	9	8	11	17	13	10	
73	Males	87	5	9	9	13	5	7	5	6	5	11	7	5	
l	Females.	61	4	4	6	8	6	4	4	2	6	6	6	5	
(Total	123	9	7	6	14	15	11	13	11	7	11	7	12	
74	Males	76	7	8	8	8	10	4	9	8	5	7	6	6	
· · · · · · · · · · · · · · · · · · ·	Females	47	2	4	3	6	5	7	4	8	2	4	1	6	
ſ	Total	128	8	5	12	12	11	5	12	11	10	14	11	17	
75	Males	70	8	1	6	2	7		9	5	5	10	6	11	
{	Females.	58		4	6	10	4	5	3	6	5	4	5	6	
ſ	Total	134	6	7	10	15	9	6	7	15	18	18	9	19	
76	Males	73	4	4	6	7	6	8	5	7	8	10	5	8	
	Females	61	2	8	4	8	8	8	2	8	10	8	4	11	
ſ	Total	113	13	13	6	13	6	5	3	9	14	12	11	7	1
77	Males	63	8	9	8	7	4	3	2	2	4	8	7	5	1
l	Females	50	5	4	3	6	2	2	1	7	10	4	4	2	
ſ	Total	107	3	5	9	11	3	7	5	17	14	8	12	13	
78	Males	63	2	4	6	8	8	´ 3	8	7	7	4	8	8	
l	Females.	44	1	1	8	8		4	2	10	7	4	4	5	
ſ	Total	99	8	10	6	4	6	8	6	13	15	7	11	10	
79	Males	61	3	5	5	2	4	6	6	10	5	3	4	8	
į	Females	38		5	1	2	2	2		8	10	4	7	2	
(Total	96	8	4	9	12	6	4	12	8	7	7	11	8	
80	Males	55	4	3	5	8	8	1	8	1	5	4	7	6	
{	Females.	41	4	1	4	4	3	8	4	7	2	8	4	2	
ſ	Total	120	9	5	10	11	10	9	12	13	17	6	9	8	1
81	Males	64	6	2	6	5	2	5	9	7	6	2	6	7	1
(Females	56	3	3	4	6	8	4	3	6	11	4	3	1	
ſ	Total	82	8	5	5	8	3	6	6	12	8	9	8	9	
82	Males	48	1	8	4	4	1	5	4	8	2	5	6	5	
i	Females .	34	2	2	1	4	2	1	2		6	4	2	4	

DEATHS-BY AGES, BY SEX, BY MONTHS.

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

AGES		YEAR.						MONT	us, 188	1.					
YEARS.	SEX.	1881.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk,
- 0	(Total	104	7	8	11	13	5	6	9	10	6	8	11	9	1
59	Males	58	5	5	4	7	3	4	3	5	5	5	8	3	1
2000	Females.	46	2	3	7	6	2	2	6	5	1	3	3	6	
	Total	136	8	9	11	9	13	13	11	16	14	9	10	12	, ,
60	Males	79	4	7	6	4	5	13	4	11	9	6	6	3	,
	Females	57	4	2	5	5	8		7	5	5	3	4	9	
	Total	101	6	7	8	6	18	10	6	7	10	11	7	10	
61	Males	62	4	3	4	2	7	3	8	4	7	9	7	9	
	Females.	39	2	4	4	4	6	7	3	3	3	2		1	
	Total	132	9	7	14	10	15	6	11	13	16	12	7	12	
62	Males	68	4	5	9	6	8	4	8	4	6	7		7	
	Females.	64	5	2	5	4	7	2	3	9	10	5	7	5	
	Total	123	5	8	9	13	7	4	11	11	6	19	14	15	1
63	Males	64		3	4	7	4	1	5	7	4	10	9	9	1
	Females .	59	5	5	5	6	3	3	6	4	2	9	5	6	
19	Total	82	4	6	2	6	9	5	10	12	1	5	9	12	1
64	Males	48	3	3		4	7	4	5	6	1	1	4	10	
	Females .	34	1	3	2	2	2	1	5	6		4	5	2	1
	Total	116	8	7	12	9	12	8	8	8	6	13	13	11	1
65	Males	73	4	6	8	6	8	5	5	3	6	7	7	8	
	Females .	43	4	1	4	8	4	3	8	5		6	6	3	1
	Total	102	5	12	9	15	7	5	4	8	15	10	5	7	
66	Males	60	1	9	6	8	5	4	3	5	9	4	2	4	
	Females	42	4	3	3	7	2	1	1	3	6	6	3	3	
	Total	112	5	4	7	6	20	10	6	15	11	10	8	10	
67	Males	60	1	2	5	4	13	3	6	11	9	5	1	6	
	Females.	46	4	2	2	2	7	7		4	2	5	7	4	
	Total	117	4	7	6	10	10	6	7	7	13	15	17	15	
68	Males	65	2	3	1	4	8	3	5	5	8	9	9	8	
	Females	52	2	4	5	6	2	3	2	2	5	6	8	7	
	Total	115	7	10	6	12	8	9	6	9	15	12	10	11	
69	Males	66	4	6	2	8	4	5	5	7	10	7	4	4	
	Females.	49	3	4	4	4	4	4	1	2	5	5	6	7	
	Total	146	14	9	10	11	16	13	9	10	14	18	8	13	1
70	Males	97	8	6	3	6	14	10	4	9	7	13	6	10	1
	Females	49	6	3	7	5	2	3	5	1	7	5	2	3	

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES IN	SEX.	YEAR,				_			ив, 198						
YEARS.	522.	1881.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Bept.	Oct.	Nov.	Dec.	dak
	Total	112	4	7	10	6	9	8	14	13	9	10	14	12	1
71	Males	63	1	8	4	4	4	2	7	9	9	5	10 -	4	1
{	Females	49	3	4	6	2	5	1	7	4	 -	5	4	8	
(Total	120	12	5	12	13	8	8	7	18	16	8	2	10	1
78	Males	57	6	4	9	8	8	4	2	13	9	8	1	5	
ł	Females.	53	6	1	8	5	5	4	5	5	7	5	1	5	1
(Total	· 148	9	13	15	21	11	11	9	8	11	17	13	10	
78	Males	87	5	9	9	18	5	7	5	6	5	11	7	5	
	Females.	61	4	4	6	8	6	4	4	2	6	6	6	5	
(Total	123	9	7	6	14	15	11	18	11	7	11	7	12	
74	Males	76	7	8	8	8	10	4	9	8	5	7	6	6	
l	Females	47	2	4	8	6	5	7	4	8	2	4	1	6	
(Total	128	8	5	12	12	11	5	12	11	10	14	11	17	
75	Males	70	8	1	6	2	7		9	5	5	10	6	11	
{	Females .	58		4	6	10	4	5	3	6	5	4	5	6	
(Total	134	6	7	10	15	9	6	7	15	18	13	9	19	
76	Males	73	4	4	6	7	6	3	5	7	8	10	5	8	
l	Females	61	2	8	4	8	8	8	2	8	10	8	4	11	
(Total	113	13	13	6	13	6	5	3	9	14	12	11	7	1
77	Males	63	8	9	8	7	4	3	2	2	4	8	7	5	1
l	Females	50	5	4	3	6	2	2	1	7	10	4	4	2	
(Total	107	3	5	9	11	3	7	5	17	14	8	12	13	
78	Males	63	2	4	6	8	8	13	8	7	7	4	8	8	
l	Females.	44	1	1	3	3		4	2	10	7	4	4	5	
(Total	99	8	10	6	4	6	8	6	13	15	7	11	10	
79	Males	61	3	5	5	2	4	6	6	10	5	8	4	8	
į	Females	38		5	1	2	2	2		8	10	4	7	2	
1	Total	96	8	4	9	12	6	4	12	8	7	7	11	8	
80	Males	55	4	3	5	8	8	1	8	1	5	4	7	6	
ł	Females.	41	4	1	4	4	3	8	4	7	2	8	4	2	
ſ	Total	120	9	5	10	11	10	9	12	13	17	6	9	8	1
81	Males	64	6	2	6	5	2	5	9	7	6	2	6	7	1
į.	Females	56	3	3	4	6	8	4	3	6	11	4	3	1	
(Total	82	3	5	5	8	3	6	6	12	8	9	8	9	
82	Males	48	1	3	4	4	1	5	4	8	2	5	6	5	
į į	Females .	34	2	2	1	4	2	1	2	4	6	4	2	4	

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

AGES		YEAR,						Mon	r HS , 18	81.					
YEARS.	Szx.	1881.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1	Total	73	6	4	7	6	7	4	5	10	10	1	5	8	
63	Males	44	5	1	2	2	4	2	3	6	8	1	5	5	
	Females.	29	1	3	5	4	3	2	2	4	2			3	
19	Total	59	2	2	5	8	5	6	1	5	11	6	3	5	
84	Males	34	2	1	4	2	3	5	1	2	7	4	1	2	
	Females.	25	***	1	1	6	2	1		3	4	2	2	3	
	Total	49	1	3	4	2	3	1	4	6	5	7	6	7	
85	Males	33		2	3	2	2	1	3	4	4	5	4	3	
	Females.	16	1	1	1		1		1	2	1	2	2	4	
	Total	48	1		5	7	2	4	5	3	7	4	5	5	
86	Males	25			5	4	1	3	2	2	4	2	1	1	
	Females	23	1			3	1	1	3	1	3	2	4	4	
1	Total	36	1	1	1	5	1	1	3	3	9	5	8	3	
87	Males	16	1	1					2	2	6	3	1		
	Females	20			1	5	1	1	1	1	3	2	2	3	
	Total	36	1	3	5	5		5			6	4	2	5	
88	Males	22		1	4	3		2			6	2	2	2	
	Females.	14	1	2	1	9		3				2		8	
	Total	24	2	1	3	1	2		2	3	1	3	3	3	
69	Males	12	2	1		1	1		*****	1	1	2	2	1	
	Females.	12			3		1		2	9		1	1	2	
	Total	21	1	2	3	2	1	2	1		2	3	1	3	
90	Males	9				1		1	1		1	1	1	3	
	Females .	12	1	2	3	1	1	1			1	2			
	Total	18	1	1	5	2	1	1	1	*****	2	1	2	1	
91	Males	13		1	2	2	1	1	1		2		2	1	
	Females.	5	1		3							1			
	Total	15	2	1	1		2		3		2	3		1	
92	Males	10	2	1	1		1		2		1	2			
	Females.	5					1		1		1	1		1	
	Total	9	1	1			2			3	1	1			
93	Males	3		1						2					
	Females.	6	1				2			1	1	1			
1	Total	6		1	1	1	1					1		1	
	Males	3			1	1						1			
	Females	3		1			1							1	

TABLE VIII.—Exhibiting, by Sex, the Number of Children under One Year of Age Returned as having Died in Michigan during the Year 1881; distinguishing the Months in which they Died, their Age in Months at Death, the Months in which they were Born, and whether Born in the Year of Death or in the Previous Year.

					_				_					_
	ND UN.	Total	545	261	996	263	85.54	515	819	754	100	418	25	858
	ALL AGED UNDER ONE YEAR	Se	128	100	150	152	132	137	296	424	312	22	E 2	194
NTHS.	BORN IN YEAR.	Total.	123	68	101	2	20	63	130	191	8	3		1
Велтив ву Монтив.	OF THOPE BORN I PREVIOUS YEAR,	Sex.	829	88	60	#8	82	15.53	74 56	25.72	22	128	∞.→	
АТИВ	04					5.4		υ	188					
DE	KATH.	Total.	129	162	192	179	208	236	388	587	524	33.	172	333
	OF THOSE BORN IN YEAR OF DEATH.	Ser.	70	2.8	120	113	118	122	186	335	287	210	158	196
	62							1	188					
revi	,189	X						'00	181					
Number Born in each Mouth of Year Previ- ous to Year of Death.	Total			*	18	33	88	\$	69	106	121	155	178	215
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NUMBER OF CHILDREN WHO DIED AT EACH AGE IN MONTHS.	-		30 E	18	0.4	-10	20 20	97	252	53	22	52	22	129
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NUMBER BORN IN EACH MONTH OF YEAR OF DEATH,	Sox		Males	Males	Males	Males	Males	Males	Males	Wales	Males	Males	Males	Males
r Year	Total		358	877 H	688	188	367 N	888	304	6110	271 N	203 P	130 N	103
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· Excluding 7 maies and 2 lemales, month of death unknown; and 56 deaths of persons of unknown sex, -65 in all.

BIRTH-MONTHS MOST FAVORABLE TO THE LIFE OF THE CHILD,

Exhibit 3 contains data concerning the number of children who were born in each month of the year 1880, and who died in 1880 and 1881 aged under one year. The greatest number of deaths under one year of age, according to the returns, occurred among children born in the month of December. The least mortality was among those born in the month of January.

MONTHS OF GREATEST DANGER TO LIFE OF CHILDREN AGED UNDER ONE YEAR.

While, according to the returns, the greatest danger to life at all ages was, in 1881, in the month of September, the September being three consecutive months of great danger. This is a fact of painful repetition year after year, and one in which individual observation verifies statistics. When we consider the probabilities of life being so much greater after the age of one year, the problem, how to guard against the perils of the first year of life, becomes one for the gravest consideragreatest mortality among children under one year of age was in the mouth of August; the mouths of July, August, and

TABLE VIII—Exhibiting, by Sex, the Number of Children under One Year of Age Returned as having Died in Michigan during the Year 1881; distinguishing the Months in which they were Born, and whether Born in the Year of Death or in the Previous Year.

		RD UN.	Total	245	261	296	253	278	818	518	754	607	418	158	858
		ALL AGED UNDER DER ONE YEAR	Ser	128	152	180	157 96	146	181	200	421	839 275	192	161	19R 162
-	мтив,	EAR.	Total.	123	88	101	11	20	69	130	167	88	3.1	-	
1	DEATHS BY MONTHS	OF THOSE BORN IN PREVIOUS YEAR,	Sex	23	889	60	30	82	15 53	74	2000	228	12.5	00 -	
	ATHS	O. P.n							*08	188					
	DE	MATH.	Total,	129	162	195	179	208	256	388	587	521	33.4	277	353
		OF THOSE BORN IN YEAR OF DEATH.	Ser.	70	99 70	120	113	118	112	222	335	287	210 174	158	198
1		N. K.					430		*18	188		-			
	rest.	,TES	I						*08	81					
	Born in f Year I	Total			-	18	23	53	42	29	106	121	155	178	215
	Number Born in each Mouth of Year Provi- ous to Year of Death.	No. of	Sex.			108	15 g	20	현학	88	23.00	288	619	3.5	130
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	or Ch		i	×=	9	10	92	82 80	92	25	55.55	523	22	23	17.0
1	IBER	-	-	14	15 30	22	0.20	513	12 13	183	55 55	27.83	813	21.9	57.00
1	Non	-	=	20	76	93	2,4	72	# 25°	98	115	89	23	==	910
	IONTH	No. of	Sex.	199	208	919 170	118	206	189	178	188	175	11.00	200	110
	NUMBER BORN IN EACH MONTH OF YEAR OF DEATH,	200		Males	Males	Males	Males	Males	Males	Males	Males	Males	Males	Males	Males
-	F YEAL	Total I	Lotal.	8238	377	989	381	367	8338	304	63	271	203	130	201
	TOMBI	-	вох						715	set					
1		and Deaths	Occurred.	January	February	March	April	May	June	July	August	September	October	November	December

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EXHIBIT 3.—Of the Children Born in 1880, the Number who Died during the Fear 1880; the Number who Died during the Year 1881, under One Year of Age; The Total Number who Died under One Year of Age; and the Per Cent. of Decedents Aged under One Year to the Children Born in 1880, according to the Returns.

		Сип	Сиграви Вови им 1880.	DRN IN 1	880.		M	MALES BORN IN 1880.	18 IN 188	30.		FEN	FEMALES BORN IN 1880.	BN IN I	.088
MONTHS OF BIRTH.	Births in 1880, as Returned.	Died during the Year 1880.	Died Aged under 1 Year during the Year 1881.	Total Died Aged under 1 Year.	Per Cent. of Deaths under 1 to Births.	Births of Males in 1880, as Returned.	Died during the Year 1880.	Died Aged under 1 Year during the Year 1881.	Total Died Aged under 1 Year.	Per Cent. of Deaths i under 1 to Births.	Births of Females in 1880, as Returned,	Died during the Year 1880.	Died Aged under 1 Year during the Year 1881.	Total Died Aged under I Year.	Per Cent. of Deaths under 1 fo Births.
Total	35,287	3,193	920	4,143	11.74	18,355	1,817	514	2,331	19.70	16,873	1,376	436	1,812	10.74
January	2,355	286		286	19.14	1,234	166		166	13,45	1,119	120		120	10,72
February	2,513	321	4	325	12.93	1,335	192	1	193	14.46	1,171	129	63	132	-11.27
March	2,850	327	18	315	12.11	1,506	196	80	204	13.55	1,349	131	10	141	10,51
April	2,824	341	23	364	12.89	1,502	189	14	203	13.52	1,318	152	6	161	19.99
May	2,880	280	63	300	10.73	1,472	152	88	172	11.68	1,403	128	6 .	137	9.76
June	2,772	286	42	328	11.83	1,424	159	21	180	12.64	1,345	127	21	148	11.00
July	3,011	279	29	838	11.23	1,563	167	30	197	12,60	1,442	112	29	141	9.78
Angust	3,285	270	106	376	11.45	1,682	142	19	209	12.43	1,599	128	39	107	10.44
September	8,278	215	121	336	10.25	1,673	117	. 63	180	10.76	1,598	86	89	156	9.76
October	3,173	185	155	310	10.72	1,616	100	16	194	11.79	1,522	85	61	146	9,59
November	3,069	181	178	362	11.50	1,628	103	76	197	12.10	1,436	81	18	165	11,40
December	8,278	219	215	434	13.24	1,696	134	102	236	13.96	1,578	88	113	198	12.55

a Excluding 36 in unknown month, -18 males, 16 females, and 3 unknown sex,

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-0A	Births 1880, as turned	85,287	2,355	2,513	2,850	2,824	9,880	9,772	3,011	3,285	8,278	3,173	3,068	3,278	35,287
19pi	Per Cent. Aged ur I month		33,57	42.77	35,94	40.38	34,95	32,98	36,69	41.49	88.68	37.65	43.09	50.46	39.56
	Dec.	1	1	1	1	1	1	i	1	1	1	1	1	y	186
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	Dec.	39.5	10	1	00	10	1-	2	12	10	8	8	8	613	11
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28 188	Born in Died und Year of	4,143	986	825	345	364	808	828	988	876	336	340	363	434	4,143
MONTHS		Born in 1880,died (January	February	March	April	May	June	July	August	Soptember	October	November	December	Deaths at Deaths.

17a—1881.

RELATIONS OF DEATHS OF CHILDREN TO BIRTHS, BY MONTHS.

The relation of deaths of children aged under one month to births, in 1881, is shown, by sex, and by months, in Exhibit 5. The total number of deaths under one month was 1,834, being 5.28 per cent. of the births. Of this number 5.83 per

EXHIBIT 5.—The Relation, by Months, by Total, and by Sex, of the Decedents Aged under One Month to the Births in Michigan during the Year ending December 31, 1881. cent. were among the males, and 4.41 per cent. among the females.

ept. Oct. Nov.
Sept. 8,204
Aug. 6
2 8,
June. June. 3,712 8, 147 6,42 4
June. 2,719 147 6.42
April. May. 9,805 2,887 186 134 4.85 4.64 1,603 1,469
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Feb. 2,432
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1881.

* Still-births included.

DEATHS OF CENTENARIANS.

Eight persons died in Michigan aged over one hundred years. Five of them were born in Ireland. Perhaps the most significant fact that the table shows is with reference to the time of year in which the deaths occurred, six having died in the cold months, one in May and one in September. TABLE IX.—Deaths Returned as having occurred in Michigan during the Year 1881, of Persons Aged One hundred Years and Over, Exhibiting certain Details concerning them included in the Returns.

1 1 1 1 1 1 1 1 1	Married, Single, or Widowed. Widower. Ireland Widow Ireland Widow Ireland Widow Ireland	AGE. PLACE OF DRATH. DATE OF DRATH, Cause	Years. Month. Day. Death.	103 7 6 Farmer Battle Or'k. Calhoun September., 4 Old Age.	104 3 12 Farmer North Plains Ionia January 19 Old Age.	102 4 Unknown Gr'd Rapids. Kent December 14 Old Age.	105 Farmer Erin Macomb 5 01d Age.	108 Unknown Bennington, Shlawassee February 5 Old Age.	100 Farmer Emmett St. Clair May 1 Debility.	100 Basket-maker, Flowerfield, St. Joseph., November., 27 Old Age.	
	Color. Sing Sing Or Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Marrie Slack. Marrie Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Widow White. Wid	ed,		Vermont	rer. Ireland	T Ireland	rer. Michigan	Treland	d Ireland	d Virginia	emale White. Widow Ireland
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TOWNSHIPS IN WHICH NO DEATHS OCCURRED.

There were thirty-two townships in which it was reported that no deaths occurred in 1881. It is probable that the increase of population will very soon greatly reduce the number of townships thus reporting. In 1876 seventy-five townships were included in the list.

EXHIBIT I.—Counties and Townships in which it is Reported that no Deaths
Occurred in 1881.

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COUNTIES.	1881.	Total.	Males.	Fe- males.	COUNTIES.	DEATHS IN 1881.	Total.	Males.	Fe- males
Total		6,065	8,677	2,378	Manistee	Cleona	166	91	75
Baraga	Arvon	100	66	84		(Chandler	407	224	183
Bay	Beaver	351	181	170	Manitou	Galilee	177	100	77
Benzie	Homestead	208	100	108	Mecosta	Sheridan	207	120	87
Charlevoix.	6 Boyne Valley	451	237	214		Greendale			
Castievoix.	Norwood	306	156	150	Midland	Mt. Hayley	223	120	103
Cheboygan.	Ellis					Warren	800	175	125
	Ball	66	88	28	Montmer'cy	Montmorency .=			
Crawford	Grove	166	97	6 9		Blue Lake	807	173	134
	Maple Forest	80	56	21	Muskegon	Cedar Creek	856	194	162
	Bliss	192	105	87		Laketon	918	570	348
Emmet	Carp Lake	109	70	89	Presque I.	Bismarck	100	63	87
Iosco	Thompson	81	64	17		Denton	210	162	49
- - • ·	(Center				Roscom'on	Gerrish	214	196	18
Iake	Glencoe	126	91	83		Nester	234	228	6

[·] Organized since Census was taken.

TABLE X.—Exhibiting, for the State and Counties, by Sex, the Number of Deaths Returned as having Occurred in Michigan during the Year 1881, and in each Month of the Year; also the Number of Deaths at each Period of Age.

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STAIE AND COUNTIES.	SEX.	TEAR, 1881.	January.	February.	March.	April.	May.	June,	.Tint.	August.	September.	October.	November.	Десешрег	Тикпомп.	Under 5.	D to 10.	10 to 15,	12 10 20"	20 (0 22.	25 to 30.	30 to 35.	.01 of 68	40 to 45.	45 to 50.	,68 or 08.	55 to 60.	.65 of 08	.05 ot 65	70 to 75.	.1940 bna 08	Unknown.
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	Females.	197	9	13	-	15	77	1	15	8	8	12	21	15	1.	17	7	9	=	14	10	9	10	90	04	0	62	10	9	-	5	64
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Branch		-	Calnoun			Cass			Charlevoix Males			Cheboygan.			Chippewa			Ulare			Clinton	

	TABI	BLE	X	٦	NO	TIN	UEI	-	-CONTINUED Deaths	ths	by		Counties,	ie8,	by	S	Sex, 1	by	Mon	ths	Months, and		ž	Age,		1881	1.						1
								Mon	Моитнв, 1881	188					1					AG	AGES IN		PERIODS OF	8 0		YEARS, 1881.	1, 188	<u> </u>					l
COUNTIES.	SEX.	YEAR, 1881.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	-	November.	Посещьет.	Under 5.	.01 o3 d	10 to 15.	15 to 20.	20 to 25.	32 to 30.	30 to 35.	.03 to £0.	40 10 42	100000000000000000000000000000000000000	.00 os 64	.66 to 55.	55 to 60.	'gn 01 ng	65 to 70.	70 10 75.	MO and over.	Unknown.
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	Unknown	*	1	1	1	1	1	1	+	1	-	1	1	1	1	-	1	1	1	1	-	1	+	+	:	i	i	1	1	i	1	1	4
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TABLE X.—Continued.—Deaths by Counties, by Sem, by Months, and by Age, 1881.

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ons	35 to 40.	10	01	00	1	10	60	01	60	-	01	1	19	-	10	2	12	01
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	TA	TABLE		Ĭ	NO.	TIN	UE)	<u>0</u>	X.—Continued.—Deaths by	ths	ð	હ	Counties,	.83	ф	Sex,	, z	by i	Mon	Months, and	a	rg 9	by 1	Age,		1881	_:						
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	Total	259	15	6	81	52		23	101	69	65	88	61		27	80	17		S	15	13	1	10	9	10	00	30	10	15 14	91 7	-	8	10
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TABLE X.—Continued.—Deaths by Counties, by Sex, by Mouths, and by Age, 1881.

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65	16	10	1	7	00	9	23	130	13	8	17	=	-	2	13	15	245	137	108	1	0	4	ю
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5	14	10		16	6		95	16	10	15	90,	=	1	33	12	18	159	8	74	i	4	7	i
464	238	550	0	232	120	112	314	177	167	310	158	151	1	405	553	182	553	232	995	01	73	35	88
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Total	Males	Females	Unknown	Total	Males	Females	Total	Males	Females.	Total	Males	Females	Unknown	Total	Males	Females	Total	Males	Females	Unknown	Total	Males	Females
	_	St. Clair		_	St. Joseph Males			Tuscola		٠.					Washtenaw. Males		-		way ne		_	Wexford Males	

COLOR OF PERSONS WHO DIED IN MICHIGAN IN 1881.

Certain facts of interest pertaining to the study of this subject may be found in Tables XI. and XII. Table XII. permits a study of the details respecting color of decedents in 1881 in each county of the State.

TABLE XI.—Deaths Returned as having occurred in Michigan during the Year 1881, distinguishing the Color by Number and Proportion of each Sex; and, by Sex, the Per Cent. of Decedents of each Color to Total of All Colors; the Per Cent. of Inhabitants of each Color to Total of All Colors; also the Per Cent. of Decedents to Inhabitants.

COLOR.	SEX.	Population June 1, 1880.	Number of Deaths Returned.	Per Cent. of Deaths of each Sex to Total of Both Sexes.	Males to 100 Females.	Per Cent. of Deaths of each Color to Total of All Colors, by Sex.	Per Cent. of inhabit- ants of each Color to Total of All Colors by Sex, June I, 1880.a	Death - rate, - Per Cent. of Deaths in 1831 to Population
	Total	b1,621,927	19,238			100.00	100.00	1,19
All Colors	Males	853,637	10,263	53.53	115.18	100.00		1.20
All Colors	Females	768,290	8,910	46,47		100,00		1.16
	Unknown		65			100.00		
	Total	1,599,932	18,803			97.74	98,64	1,18
White	Males		10,042	53.53	115,19	97.85		
w nite	Females		8,718	46.47		97.85		
	Unknown		43			66,15		
	Total		144			.75		
Black	Males		84	58,33	140,00	.82		
	Females		60	41.67		.67		
	Total		56			.29		
Mulatto	Males		31	55,36	124.00	.30		
	Females		25	44.64		.28		
	Total	7,019	190			.90	.43	2.70
	Males		95	50.26	101.06	.93		
Indian	Females		94	49.74		1.05		
	Unknown		1			1.54		
	Total		45			.23		
	Males		11	45.83	84,62	.11		
Unknown	Females		13	54.17		.15		
	Unknown		21			32.31		
	[Total	14,918	200			1.04	,92	1.3
Black and Mulatto	Males		115	57.50	135.29	1,12		
	Females		85	42.50		.95		

^{*} Population represented by returns of deaths in 1881.

b Includes 28 Asiatics.

TABLE XII.—Exhibiting, by Number and by Sex, for the State and Counties, the Color of All Persons Returned as having Died in Michigan during the Year ending December 31, 1881.

	ALL	Colors	3,—1881			Wniti	ε.		BL	CE		LAT	U-		Indian.				UNENOWN			
STATE AND COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Thelenomen
State	19,238	10,263	8,910	65	18,803	10,042	8,718	43	144	84	60	56	31	25	190	95	94	1	45	11	13	2
Alcona	12	7	5		12	7	5	-		1	-					_	-		_		_	1
Allegan :	412	215	197		412	215	197				Į,			2.								١
Alpena	314	74	40		113	78	40		1	1												١
Antrim	75	35	40		61	31	30					1	1		13 3	10	14					I
Baraga	18	7	11		s	4	4								10	3	7		-			١
Barry	290	126	164		290	126	164															١
Bay	541	305	236		586	300	236		1	1		2	2		2	2						l
Benzie	65	33	32		63	32	31		1	1	L.	1		1								
Berrien	307	150	156	1	300	148	151	1	8	2	3	2		2								
Branch	255	157	98		253	155	98					1	1		1	1						
Calhoun	426	223	196	7	414	219	189	6	10	4	6								2		1	1
Cass	176	85	91		156	77	79		10	6	4	10	2	8								
Charlevolx	54	27	27		39	20	19		1		1				14	7	7	1	17			
Cheboygan	109	59	50		103	56	47		1		1				5	3	2					
Chippewa	10	5	5		5	3	2					2	1	1	3	1	2					
Olare	66	33	33		66	33	33															
Clinton	276	131	145		275	130	145					1	1						1			
Crawford	16	7	9		15	7	8								1		1					J
Delta	83	45	34	4	83	45	34	4			1			l.,								1
Eaton	356	172	184	1	355	171	184		1	1			l.,									
Emmet	79	44	35		45	27	18						1.	1	34	17	17					
Genesee	409	208	201		899	203	196		3	1	2	7	4	3								
Gladwin	10	5	4	1	10	5	4	1						1.		-			1			
G'd Traverse	70	36	34		70	36	34									1		·				1
Gratiot	212	109	102	1	209	108	100	1				3	1	2								
Hillsdale	372	208	164		369	205	164		2	2									Ι.			
Houghton	248	131	1119		243	131	119			1								1.				
Huron	1	116	1	100	241	115	125	1											١.			1
Ingham	298	147	150	,	296	147	149		1		1			1	1				١.			
Ionia	1	154	148		1	154	145			1.									١.	100		1
Iosco	ĺ	90	1		174	1100															_	
Isabella	1	91	1	100				1				100		1	1		13			3		

TABLE XII.—CONTINUED.—Deaths by Counties, by Color, and by Sex.

	ALL	Color	s,—188	ı.		WHIT	E.		BL	AC	κ.		TTO		13	K DI	LAN		T.	NK	102
COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total,	Males.	Females.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.
Isle Royals										_										-	
Jackson	407	225	182		395	217	178		9	5	4	2	9					_	1	1	
Kalamazoo	437	221	216		429	216	213		8	5	3										
Kalkaska	38	20	18		38	20	19													Ľ	
Kent	1,022	549	472	1	1,005	542	463		6	4	2								11	3	7
Keweenaw	122	67	51	4	199	67	51	4			_			1							
Lake	48	29	19		47	29	18								1		1				
Lapeer	306	154	151	1	304	152	151	1				2	2						_		
Leelanaw	96	56	39	1	49	30	19								47	26		1			
Lenawee	415	216	198	1	414	215	198	1						_					1	1	
Livingston	250	137	122		257	136	121		9	1	1							_	c		
Mackinac	19	10	9		16	9	7		****						. 3	1	2			_	
Macomb	305	187	118	1	305	187	118														
Manistee	181	100	81		181	100	81	0													
Manitou	5	1	4		5	1	4													_	_
Marquette	406	238	156	12	395	237	156	2	****										u	1	
Mason	184	93	91		173	83	90.		9	2					9	8	1			_	_
Mecosta	297	163	134		293	163	130		1		1				3		3			_	_
Menominee	150	95	54	1	143	92	50	1							2	1	1		5	2	3
Midland	83	46	38	1	82	45	36	1							1	1					
Missaukee	27	15	11	1	27	15	11	1													
Monroe	346	170	175	1	545	170	174	1											1		1
Montcalm	396	228	172	1	393	223	170		1		1	1		1					1		
Montmorency	5	3	2		5	3	2														
Muskegon	462	245	214	3	460	214	214	2	1	1							4		1		
Newaygo	165	83	82		163	83	80	1							2		2				
Oakland	390	213	174	3	382	210	170	2	6	3	3	1		1					1		
Oceana	166	78	88		158	76	92								8	2	6				
Ogemaw	25	13	12		25	13	12							0							
Ontonagon	19	15	4		19	15	4						1						_		
Osceola	127	61	66		127	61	66														_
Oscoda	11	5	6		10	5	5		1		1	***									_
Otsego	23	12	11		23	12	11					.77.									
Ottawa	420	241	175	4	408	231	174	3	0	6		1	1		4	3	1		1	_	
esque Isle.	38	22	16		38	92	16										L.				

o returns from county clerk to State Department.

DEATHS-BY COUNTIES, BY COLOR, BY SEX.

TABLE XII.—CONTINUED.—Deaths by Counties, by Color, and by Sex.

	ALL C	COLORS	,—1881			Wniti	l .		BL	ACI	ε.	LA	U- TTC	٥.	12	IDI	AN.		Us	KN	ow	N
COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Femules.	Unknown.	Total.	Males.	Females.	Unknown.
Roscommon.	12	8	4		12	8	4												_			
Saginaw	957	557	400		935	543	392		4	3	1	3	2	1	14	8	6		1	1		_
Sanilac	298	146	152		298	146	152	_														
Schooleraft	14	9	5		14	9	5	-														_
Shiawassee	254	119	131	4	253	119	131	3									ı.		1			1
St. Clair	464	238	220	6	484	238	220	6													_	-
St. Joseph	232	120	112		226	118	168		4	1	3	2	1	1			L.					-
Tuscola	314	177	167		342	175	167								2	2						-
Van Buren	310	158	151	1	299	152	146	1	5	3	2	6	3	3			1.					
Washtenaw	405	223	182		400	220	180		4	2	2	1	1								_	_
Wayne	2,229	1,232	995	2	2,169	1,196	973		47	29	18	7	6	1	4	1	3		2			5
Wexford	73	35	38		72	35	37												1		1	-

DEATHS OF NATIVE AND FOREIGN-BORN INHABITANTS.

As shown in Exhibit 6, the average per cent. of deaths to the whole number of deaths, of the native-born population, for ten years ending with 1880, was 799.2 in 1,000. The per cent. of deaths among the native-born in 1881 was slightly greater. Table XIII. exhibits details by number and sex for the State and counties.

EXHIBIT 6.—Nativity of Persons Returned as having Died in Michigan during each of the Years 1877 to 1881, inclusive, showing the Number and the Per Cent. which the Native and the Foreign-born Decedents are of the Total of All Nativities, and the Average Number and Per Cent. for the Ten Years ending with 1880.

NATIVITY	DEA 18	тн s , 77.		тив, 78.	DEA 16	тнв, 79.	DEA 18			тн s, 81.	Av. for ending 18	g with
OF DECEDENTS.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.
All Nativities	12,919	100.00	12,766	100.00	14,407	100.00	16,102	100,00	19,238	100.00	13,062	100.00
Native	10,305	79.77 17.42	10,183 2,237	79.77 17.52	11,495 2,458		12,572 2,962		15,402 3,407		10,439 2,231	79.99 17.00
Unknown	368	2.81	346	2.71	454	3.15	568	3.52	429	2,23	892,	3.00

TABLE XIII.—Exhibiting, by Number and by Sex, for the State and Counties, the Nativity of all Persons Returned as having Died in Michigan during the Year ending December 31, 1881.

	ALL 1	NATIVI	TIES, 18	81.		NATI	VE.			Forri	GN.		τ	JNEN	own.	
STATE AND COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
State	19,238	10,263	8,910	65	15,402	8,027	7,316	59	8,407	1,988	1,420	1	429	250	174	E
Alcons	12	7	5	•	9	5	4		2	2			1		1	
Allegan	412	215	197		842	170	172		55	88	17		15	7	8	
Alpena	114	74	40		84	55	29		27	16	11		3	8		
Antrim	75	35	40		59	26	83		15	9	6		1		1	
Baraga	18	7	11		14	5	9		4	2	2					
Barry	290	126	164		266	114	152		22	12	10	****	2		2	
Bay	541	305	236		409	223	186		116	71	45		16	11	5	
Benzie	65	33	32		47	21	26		6	2	4		12	10	2	
Berrien	807	150	156	1	246	118	127	1	87	20	17		24	12	12	
Branch	255	157	98		236	144	92		13	10	3		6	3	3	
Calhoun	426	223	196	7	365	193	165	7	49	24	25		12	6	6	
Cass	176	85	91		164	79	85		11	6	5		1		1	
Charlevolx	54	27	27		47	23	24		6	3	3		1	1		
Cheboygan	109	59	50		84	42	42		22	16	6		3	1	2	
Chippewa	10	5	5		- 7	4	8		2		2		1	1		
Clare	66	83	83		53	25	28		11	7	4		2	1	1	
Clinton	276	181	145		240	114	126		29	16	13		7	1	6	
Crawford	16	7	9		15	6	9		1	-1						
Delta	83	45	34	4	66	36	30		18	9	4		4			
Eaton	356	172	184		331	162	169		16	7	9		9	8	6	
Emmet	79	44	35		70	39	81		5	3	2		4	2	9	
Genesce	409	208	201		885	169	166		60	31	29		14	8	6	
Gladwin	10	5	4	1	6	2	- 3	1	4	3	1					
Gr. Traverse	70	36	34		63	31	82		7	5	2					
Gratiot	212	109	102	1	193	102	90	1	12	5	7		7	2	5	
Hillsdale	372	208	164		339	187	152	 -	21	18	8		12	8	4	
Houghton	243	131	112		293	108	95		3 8	22	16		2	1	1	
Huron	242	116	125	1	166	76	89	1	74	39	35		2	1	1	-
Ingham	298	147	150	1	255	121	133	1	31	19	12		12	7	5	
Ionia	300	154	145	1	265	134	130	1	32	19	13		3	1	2	
Iosco	174	90	84	ļ	135	65	70		32	19	13		7	- 6	1	
Isabelia	176	91	85		140	70	70		36	21	15					

TABLE XIII.—Continued.—Deaths by Counties, Nativity, and Sex.

	ALL 3	IVITAN	TIES, l	861.		NATI	TE.			FOREI	GN.		τ	NEN	own	
COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Malcs.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
Isle Royal.																
Jackson	407	225	182		847	183	164		49	33	16		11	9	2	
Kalamazoo	437	221	216		360	175	185		61	30	28		13	10	3	
Kalkaska	38	20	18		32	17	15		2	2	1		3	1	9	
Kent	1,022	549	472	1	851	442	408	1	156	98	58	****	15	9	6	
Keweenaw	122	67	51	4	89	50	35	4	28	14	14		5	3	0	
Lake	. 48	29	19		40	23	17		6	4	2		9	9		
Lapeer	30 5	154	151	1	253	128	124	t	52	26	26		1		. 1	
Leelanaw	96	5 6	39	1	87	49	37	1	9	7	2					
Lenawee	415	216	198	1	356	178	177	1	49	30	19		10	8	2	
Livingston	259	137	122		223	114	109		35	22	13		1	1		
Mackinac	19	10	9		10	3	7		9	7	2					
Macomb	305	187	118		235	147	88		68	40	28		2		2	
Manistec	181	100	81	 .	137	74	63		40	23	17		4	3	1	
Manitou	5	1	4		2		2		3	1	2					
Marquette	406	238	156	12	295	163	120	12	109	74	35		9	1	1	
Mason	184	93	91	 .	160	82	78		28	10	13		1	1		
Mecosta	297	163	184		239	127	112		53	33	20		5	3	2	
Menominee	150	95	54	1	101	59	41	1	37	31	6		12	5	7	
Midland	83	46	86	1	63	33	29	1	12	9	3		8	4	4	
Missaukee	27	15	11	1	20	11	8	1	6	3	3		1	1		
Monroe	346	170	175	1	275	131	143	1	71	39	32					ĺ.
Montcalm	396	223	172	,	351	190	160	1	36	26	10		9	7	2	
Montmorency.	5	3	2		2	2			3	1	2					
Muskegon	462	245	214	3	825	168	155	2	118	69	49		19	8	10	
Newaygo	165	83	82		141	73	68		21	8	13		3	2	1	
Oakland	390	213	174	3	314	171	140	3	64	36	28		12	6	6	
Oceana	166	78	88		150	70	80		11	5	6		5	3	2	
Ogemaw	25	13	l .	 .	19	10	8		5	2	3		0	1	1	
Ontonagon	19	15	4		12	9	3		7	6	1					
Osceola	127	61	66		98	46	52		20	10	10		9	5	4	1
Oscoda	11	5	6		9	5	4		4		2					
Otsego	23	12	11		19	9	10		3	2	1		1	1		
Ottawa	420	241	175	4	323	184	136	1	87	49	37	1	10	8	2	
			1		<u> </u>		711									

a No returns from the county clerk.

TIDDII III. COMIINODI, DOGINO OU CONTINUO, ITAVIONO, ANG MICE	TABLE	XIII.—Continued	-Deaths	bи	Counties.	Nativity.	and	Sex.
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	ALL 1	IVITAR	TIES, 1	881.		NATI	VE.			FOREI	GN.		τ	NEN	ōwn	
COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
Presque I	38	22	16		26	16	10		11	G	5		1		1	
Roscommon.	12	8	4		10	6	4		2	2						
Saginaw	957	557	400		689	885	864		255	162	93		13	10	3	
Sanilac	298	146	152		205	99	106		92	46	46		-1	1		
Schoolcraft.	14	9	5		6	8	8		2	1	1	444	6	ð	1	
Shiawassee	254	119	181	4	212	96	112	4	37	22	15		5	1	4	
St. Clair	464	238	220	6	812	160	146	6	151	78	73		1		1	
St. Joseph	232	120	112		198	100	98		29	16	13		5	4	1	
Tuscola	344	177	167		295	155	140		48	22	26		1		1	
Van Buren	810	158	151	1	286	145	140	1	14	7	7		10	6	4	
Washtenaw.	405	228	192		308	162	146		88	54	34		9	7	2	
Wayne	2,229	1,232	995	2	1,604	876	726	2	598	338	260		27	18	9	
Wexford	73	85	38		60	29	81		12	6	6		1		1	

CAUSES OF DEATH, 1881.

"In statistical researches," says Quetelet, "our object is generally to discover the causes which influence social facts." None of these causes are of so great importance as those that relate to the influence of deaths upon our population. It now remains for us to consider the specified, or particular, causes of deaths classified according to the plan usually adopted. The classes of causes which occasioned the greatest number of deaths in 1881 may be compared in Table XIV. with those of each preceding year from 1877 to 1881, inclusive. The average number of deaths for the ten years, ending with 1880, from each of the classes of causes is also here shown.

Exhibit 7 shows the number of deaths in each month of the year 1881 from all causes and from each class of causes.

CAUSES OF DEATH, DR. FARR'S CLASSIFICATION.

The per cent. of deaths from zymotic diseases was much greater in 1881 than in any preceding year, being 35.31, while the average for ten years was only 27.30. The per cent. of deaths from local diseases occurred next in order, but was somewhat less than the average. The per cents of deaths from constitutional and developmental diseases, and from violent deaths, were less than the average for ten years.

TABLE XIV.—Number of Deaths Returned as having occurred in Michigan from All Causes, and from each Class of Causes, and the Per Cent. of Deaths from each Class of Causes to Deaths from All Causes, for each of the Years 1877 to 1881, inclusive; also the Average Number and Per Cent. for the Ien Years 1871–1880.

CAUSES OF DEATH,	183	77.	193	78.	18	79.	188	30.	188	31.	Ave: FOR YEARS ING V	, END- WITH
CLASSES.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.
All Causes	12,919	100.00	12,766	100.00	14,407	100.00	16,102	100.00	19,238	100.00	13,062	100.00
IZymotic	3,319	25.69	3,121	24.45	4,177	28.99	4,825	29.97	6,793	85,31	3,566	27.30
II.—Constitutional.	2,454	19.00	2,290	17.94	2,343	16.26	2,516	15.81	2,734	14.21	2,249	17.22
IIILocal Discases	3,506	27.14	8,491	27,27	8,918	27.20	4,492	27.90	5,011	26.05	3,725	28,52
IV.—Developmental	1,527	11.82	1,825	14.29	1,802	12.51	1,861	11,56	2,033	10.57	1,431	10.96
V.—Violont Deaths. Unknown and Unclassified	654 1,459	5.06 11. 2 9		5.41 10.64	697 1,470		875 1,503				1	1

EXHIBIT 7.—By Months, the Number of Deaths Returned as having Occurred in Michigan from All Causes and from each Class of Causes during the year 1881.

03 1 00 00	CAUSES OF DEATH,-	VEAR.					Mo	NTES (OF DEA	тп5,-	1881.				
All Causes		1881,	1000	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
II.—Constitutional. 2,734 160 180 227 274 247 203 233 242 221 251 227 261 III.—Local Diseases 5,011 323 366 432 454 432 335 383 477 488 444 404 462 IV.—Developmental 2,033 119 140 166 137 164 163 161 219 202 166 156 231 50 000 000 000 000 000 000 000 000 000	All Causes	19,228	1065	1078	1315	1427	1,457	1,276	1,701	2,246	2,301	1,941	1,617	1,748	
III.—Local Diseases 5,011 323 366 432 454 432 335 383 477 488 444 404 462 IIV.—Developmental 2,033 119 140 166 137 164 163 161 219 202 166 156 231 50 50 50 50 50 50 50 50 50 50 50 50 50	IZymotie	6,793	326	260	330	363	417	398	670	1,021	956	S30	634	570	18
IV.—Developmental 2,033 119 140 166 157 164 163 161 219 202 166 156 231 5 V.—Violent Deaths 966 37 33 56 70 68 54 105 97 225 81 69 81 5	II Constitutional.	2,734	160	180	227	274	247	203	233	242	921	251	227	261	8
VViolent Deaths., 906 37 33 56 70 68 54 165 97 225 81 69 81 8	IIILocal Diseases	5,011	323	366	432	451	432	335	383	477	488	444	404	462	11
Unknown and Un-	IVDevelopmental	2,033	119	140	166	137	164	163	161	219	202	166	156	231	9
Classified	V Violent Deaths	900	37	33	36	20	68	54	105	97	225	81	69	81	8
	classified	1,701	100	97	124	129	129	123	149	100	209	169	127	143	12
										Į					

stand first in the order of groups presented in Exhibit 8, although the per cent. of deaths from DEATHS IN 1861, GROUPED BY PAKT OF BOUT DISEASED.

is 1881, than in any year represented in the exhibit. Deaths from diseases of the bowels show a per 3.—Order of Succession of Seven Groups of Causes of Deaths Rolurned as having occurred in Michigan for each Fears 1878 to 1881, inclusive,—Number of Deaths from each Group of Causes, and Per Cent. of Deaths from each Group of Causes to the Deaths from All Causes. - in any preceding year.

		1876.			1877.			1878.			1879.			1880.			1881.	
ORDER.	DISEASES	Num- ber.	Per Ct. to All Causes.	DISEASES	Num- ber.	Per Ct. to All Causes.	DISTABLE	Num. ber.	Per Ct. to All Causes.	DISEASES	Num- ber.	Per Ct. to All Causes.	DISEASES	Num- ber.	Per Ct. to All Causes.	DISEASES	Num- ber.	Per Ct. to All Causes.
	All Caus.	12,576	100.	00 All Caus.	12,919	l	100.00 All Caus.	12,766	100.00	100.00 All Caus.	14,407	100.00	100.00 All Caus.	16, 102	100.00	100.00 AllCaus.	19,238	100.00
-	1 Lungs	2,783	21.	89 Lungs	2,584	20.00	20.00 Lungs	2,609	20.44	20.44 Lungs	2,945	20.44	20.44 Lungs	3,887	21.03	21.03 Lungs	8,366	17.50
69	Bowels	1,633	19.	Bowels	1,702		13.17 Brain	1,440	11.25	11.25 Throat	1,803	12.51	12.51 Bowels	1,962	12.18	12.18 Bowels	8,102	16.12
80	Brain	1,549	12.3	II Brain	1,592	12.32	12.32 Bowels	1,247	9.77	9.77 Brain	1,466	10.18	10.18 Throat	1,88	11.79	11.79 Throat	2,403	12.96
*	Throat	179		4.30 Throat	781	6.03	6.05 Throat	1,160	9.08	9.09 Bowels.	1,424	88.6	9.88 Brain	1,709	10.61	10.61 Brain	2,043	10.62
ю	Heart	\$	<u>જ</u>	Heart	9	3.56	3.56 Heart	452	3.54	3.54 Heart	679	3.81	3.81 Heart	670	3.54	3.54 Heart	646	3.36
				Liver	8	86.	98 Liver	143	1.12	1.12 Liver	121	\$	84 Kidneys.	191	8.	.96 Kidneys.	241	1.25
										Kidneys.	113	.78	.78 Liver	119	.74	74 Liver	143	72.
1 ?	1-5 5 Groups	6,381	<u> </u>	2 6 Groups	7,245	ļ	58.08 6 Groups	7,031	55.23	55.23 7 Groups	8,421	58.45	58.45 7 Groups	9,800	60.SG	60.86 7 Groups	12,034	62.55

a different	1		4		;	;				
mfassiler.	- Lange	Northeri	OMF.CT.	V 25	į			:		
18. ·	Benzie.	Antrim.	Alcona.	Kent.	Ciare		والمعط	. M		,
.ppewa.	Gr. Traverse, 5	e, g Charlevolx.	Alpena, 1	Lake.	Gladwin,	Harot.	Cumpor.	instan		,
Delta.	Leelanaw.	Cheboygan. Iosco.	Iosco.	Mason.	Isabella.	Lapetr.	Estoc.	3	Man security	.*
Houghton.	Manistee.	Orawford.	Montmorency.	Muskegon.	Mecosta.	Sagina w.	Genenee.	Vat Kuree	distract.	
Isle Royal. b Manitou.	Manitou.	Emmet.	Ogemaw. m	Newaygo. n	Midland.	Sanilac.	Gratiot.		Keismann	
Keweenaw.	Missaukee.	Kalkaska, J	Oscods.	Oceana.	Roscommon.	St. Clair.	Ingham.		Legawee.	
Mackinac.	Wexford. h	Otsego, k	Presque I.	Osceola.		Tuscola.	Ionia.		St. Joseph.	
Marquette, 4				Ottawa.			Livingston.		Washtenaw.	
Menominee.							Montcalm. 4			
Ontonagon				•			Shiawassee.			
Schoolcraft, !										
No returns of deaths a Detour. Bockland. f M. J Garffeld and Oliver.	ESE	the from the following townships: b No returns from the county. f Munising and Thompson. rer. k Charlton and Livingston. ne. 75. Joseph.	8 £	e Hendricks. ast Bay, Grant l Green ar	, and F	olon, Crystal I h Henc m Cummin	d Champion, Orystal Falls, Iron River, and Richmond. Saradisc. Henderson and South Branch.	r, and Richmo h Branch. Vest Branch.	; -	• Oarp Lake and Eveline and Murion. • Granf. • Ofto.

DEATHS, 1881, BY CLASSES OF CAUSES, BY DIVISIONS OF THE STATE.

For the convenience of studying what relation each class of causes of deaths had to each of the eleven geographical divisions of the State, reference may be made to Table XV. The diseases included in each class may be found in Table XVI., following.

The least per cent. of all deaths, in 1881, to population, occurred in the South-western division; the greatest per cent. occurred in the Northern-Central. The counties which are included in each division may be seen in Exhibit J.

TABLE XV.—Exhibiting for the State and for each of the Eleven Geographical Divisions of the State, the Number of Deaths, the Per Cent. of Deaths in 1881 to Population in 1880, and the Per Cent. of Deaths for each Division to Total Deaths for the State during the Year 1881; also, the Per Cent. of Deaths from each Class of Causes to Deaths from All Causes.

STATE AND	Popula- tion June 1.		TUS RTED,	Per Ct. of all Deaths	PER (USES TO	DEATH8	FROM EAT PROM AT	ACH CLAS LL CAUSE SIONS.	8 OF
GEOGRAPHICAL DIVISIONS.	1880, Represented by Deaths in 1881.	Num- ber.	Per Ct. of Total.	in 1881 to Pop- ulation in 1880.	Class I. Zymotic Diseases.	Class II. Consti- tutional Diseases.	Cl'ss III. Local Discases.	Cl'ss IV. Develop- mental Discases.	Class V. Violent Deaths.	Unk. and Un- classi- fied.
STATE	1,621,927	19,233	100.00	1,19	35.31	14.21	26.05	10.57	5,02	8.84
Upper-Peninsular.	80,663	1,084	5.63	1.34	36.62	7.38	18.63	13.38	9,23	14.76
North-western	38,414	517	2,69	1,85	45.65	10,06	21.47	8.90	5.22	8.70
Northern	27,999	394	2.05	1.41	85.03	11.93	28.10	8.38	4.31	17.26
North-castern	28,897	379	1.97	1.59	40.63	7.92	20.05	8.97	5.01	17.41
Western	182,767	2,594	13.48	1.42	45.68	11.99	21,09	7.67	8.47	10.10
Northern-Central	89,282	644	3.35	1.64	48.20	9.01	19.88	6.99	4.85	11.49
Bay and Eastern	245,679	3,152	16.38	1.28	35.31	12.18	24.71	11.33	8.22	8.25
Central	293,822	3,050	15,85	1.04	36.10	16.03	27.11	8.52	3.74	8.49
South-western	123,866	1,205	6.26	.97	29.71	17.51	27.80	11.54	4.40	9,05
Southern-Central	292,806	2,949	15.83	1.01	28,18	16.95	31.60	12.34	4.10	6.82
South-castern	273,232	3,270	17.00	1.20	29.63	17.49	30,06	12.57	4.22	6.02

Exhibiting the Number of Reported Deaths in Michigan and in each County of the State during the Year 1881, from Specified Causes, Statistically Classified.—(Still-Births Included.) TABLE XVI .- CAUSES OF DEATH. - NOSOLOGICAL ARRANGEMENT.

											S	COUNTIES1881	18.	881.								İ			I
CAUSES OF DEATH,—1881.	STATE.	Адсопа.	Allegan.	Alpena	Antrim.	Barnga.	Barry.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevolx.	Срероудал.	Chippewa,	Clare.	Clinton.	Crawford,	Delta,	Eston.	Emmet.	Сепсвес.	Gladwin.	Gr. Traverse.	.toltarD
All Causes	19,238	22	412	118	75	64	230 2	9 1199	65 307	1 255	436	921	20	109	10	8	915	16	88	336	25	601	10	20	213
Specified Causes	17,601	2 00	E 2	95	69 9	1 2 1-	5 51	33	62 269	38 233	399	165	00 4	90	10	9	195	9	3 \$	815	52	385	9	£ 00	171
CLASSES.		1	İ	T	1	-	1	-	T	1			1		1	1		1	1	İ		İ	İ	T	
I.—Zymotic Discases	6,793	*	128	400	22	04	140	532	26 87	7 54	120	07	13	42	01	28	E	=	13	104	21	136		60	69
IIConstitutional Discases	2,734	01	62	14	11	-	22	20	14	48 50	17	45	7	10	7	-	44	01	99	3	0	202	-	10	56
IIILocal Discases	5,011	60	106	173	18	10	29	193	13 8	18	197	61	64	26	1	=	29	-	9	100	9	116	40	16	57
IVDevelopmental Diseases	2,033	7	61	2	12	-	45	14	50	32 32	20	19	10		*	1	139	i	7	96	90	88	1	30	2
VViolent Deaths	999	-	Ξ	1	01	O1	69	95	8	18 13	300		-11	*	- 1	9	-	Q4	90	=	*	18	CH	1	10
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I1. Miasmatic Diseases	6,753	*	126	82	200	91	139	237	8 8	84 54	119	38	13	43	01	90	Ξ	п	19	102	81	136	-	50	62
2. Enthetic Discases	7	4	-	1	1	+	+	1		O.	1	1	- 1	1	1	1	-	1	1	1	1	1	1	1	
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4. Parasitic Discases	18	1	-	1	÷	1	7	1		1	-	94	1	1	1	1	1	-	1	-	1	1	1	1	
II1. Diathotic Diseases	644		=		9	1	7	18		12 11	10	18	-		- 1	Ġ1	16	-	1	10	1	17	1	-	00
2. Tubercular Diseases	2,090	C1	21	13	10	-	35	120	- 4	86 89	10	0	9	8	*	0	88	84	60	63	0	56	1	6	18

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TABLE XVI.—Continued.—Causes of Death, Classified.

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CAUSES OF DEATH,—1891.	ATATA	Alcona.	Allegan.	Alpena.	Antrim.	Baraga.	Barry.	Bay.	Benzle.	Berrien.	Calboun.	Cass.	Charlevolx.	Cheboygan,	Chippewa.	Clare.	Citnton.	Crawford.	Delta.	Euton.	Emmet.	Genesee.	Gladwin.	Gr. Traverse.	Gratiot.
7. Whooping-cough	142	1	01	Ci	i	i	+	-:	:	-	00	10	9		-		1	-1	Ì		- 01	-1	1	1	- 1
(Typhoid Fever	886	1	81	*	00	1	=	13	-	18	18	16	10	-	1	9	1		01	_	0.	01	=	,	9
8. Typhus Fever	19	1	1	i	i	1	-	-	H	1		-	1		1	1	1	- !	-	1	-	1	1	1	-
Typho.malarial Fover	53	1	1	į	-	1	-	-	10	1	1	-	1		-	1	1			1	1		1	1	-
9, Erysipelas	132	1	9	1	-	1	1	-	н	01	10	4	80	-	1	-	_	1	1		-	-	1	,	-
10. Pucrperal Fover	99	1	60	i	1	Ť	1	1	1	-		01	1	-	01	1	1		1		-	-	-	1	
11. Carbuncto	CI	1	i	1	i	1	-	+	1	1	- 1	1	1	-	1	1	1	_ [_	!	1	:	- !	1	-
12. Influenza	15	1	1	1	i	1	1	+	1	-	1	1	1	-	1	1	1	1	_ !	1	- !	-		_ !	_!
13. Dysentery	270	1	0	1	Ct	1	10	64	-	-	80	-	1	89	_	_	_	24	-	_	-		14	-	_
14. Diarrhea	201	ì	1-	10	i	1	-	50	न	10	-	-		_	_	1	C4	1	1		99	-	9		_
15. Cholera Infantum	867	1	36	6	Q4		30	7	C4	135	0	37	10	-	60	1	16	1	-	60	01 02	-	11		-
Cholera Morbus	69	1	60	i	1	-	1	23	1	99		-	1	-	1	1		01	1	1	1	1	1		-
Cholera	17	1	1	İ	i	1	1	1	1	1	1	1	1	_	1	1	i	01	1	1	1	1	1	1	1
17. Agno	234	1	93	1	04	1	-	6	13	7	-	- 00	-	_	1			1	-	01	1	_	C4	_	***
13. Remittent Fever	181	1	*	i	i	1	-	10	:	9		-	1	_	1		11	1	1	_	1	4	_!.	1	_
19. Rheumatism	123	1	0)	i	1	1	C4	:	;	*	63	Ç4	01		1	1	OI.	1	1		1		1		_
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Stricture of Urethra	-	1	1	i	1	1	:	1	1	1	1	1	1		1	1	1	1	i	1	1	1	1	1	1
* Btrloture	1	i	F	1	i	1	-	-	-	-	1	-	-	_	1	_	1	-					3		

3. Hydrophobia		1	:	ī	Ī	i	!		T	1	1	1	1	1	1	1	Ī	:	1	6	i
4. Glanders	1		1	1	1	1	1	1		1	1	1	1	1	1	1	1	:	1	1	i
L-Order & Dietic	15	-	1	- 1	1	i	-	1	1	1	-	-1	1	4		-	1	- 1			i
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2. Rachitis	01	J	1	1	1	1	1	1	1	1	1	1	1	1	1	1	i	1	1	1	i
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3. Delirium Tremens (Alcoholism)	20	1	1	1	1	1	1	1	1	1	1	- 1	1	1	1	-	1	1	- 1	1	i
4. Intemperance	80	-	1	-1	Ī	İ	1	1	1	1	-	- 1	1	1.	1	1	1	1	1	-	į
IORDER 4. Parasitic	18	-1	- 1	1	н	-	- 1	-	1	61	1	1	- 1	_	_	-	- 1	I	1	- 1	ļ
1. Thrush	13	1	1	7	-	i	1	1	1	-	1	-	1	-	1	-	1	- 1	-	1	į
2. Worms	9	1	1	:	1	7	1	-	1	-	1	-	1	1	1	1	-	1	1	1	į
3. Disease of Scalp		1	1	1	1	İ	1	1	1	1	,	-	_	1	1	1	1	-1	1	:	ļ
CLASS IL—CONSTITUTIONAL	2,734	5 65	14	=	3	70	1-	35	200	77 42	10		-	*	ON.	62	6	27	п	10	8
IIORDER 1. Diathetic	614		1	9	=	18	00	15	=	16 18	1		61	16	1	19	1	17	1	-	80
1. Gout	-	1	1	1	1	i	1	1	1	1	1	- 1	-	1	1	- 1	1	1	1	1	i
Anomis	-	1	1	1	-	Ť	1	1	1	1	1	1	-	1	1	1	1	1	1	:	į
Dropsy	283		-	00	4	10	01	-	9	4 33	-		-	7	+	6	1	90	1	1	89
3. Cancer	310	C4	1	1	1	2	1	10	4	61	1		_		1	10	1	133	1	1	•
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6, Mortification	9	1	111	1	-	i	1	1	1	1	1		× .	1	1	1	1	4	1	*:	i
II -ORDER 2. Tubercular	0,000	5	13	10	85	55	*	36	39 6	61 24	6 9	70	10	88	69	43	9	99	-	6	18
1. Scrofula	22	1	-1	1	i	-	-	1	1	1	1		-4	1	1	-	1	7	1	1	~
2. Consumption of Bowels	36	+	1	1	-	Ť	1	п	-	-	-			+	1	-	1	1	-	1	:
3. Phthisis (Oon. of Lungs)	1,975	2 50	13	4	31	21	7	33	38 6	60 24	5 9	80	4	58	60	41	8	19	1	9	11

TABLE XVI.—Continued.—Causes of Death, Classified.

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CAUSES OF DEATH,—1881.	STATE.	Allegan.	Alpena.	Antrim.	Baraga.	Barry.	Bul.	Benzle.	Berrien,	Branch.	Calboun.	Cass.	Спатістоїх.	Chippewa.	Clare,	Citnton.	Crawford.	Delta,	Eaton.	Emmet.	Сепевее.	Gladwin.	.5819781T .1Đ	Gratiot.
9. Stricture of Intestines		i	-		1	i	1	1	1	1		1	1					- 1	- 30	1	1	4	1	}
10. Fistula	****	1	1	1	1	1		i	1	1	•	+	1		į	1	1	1	•:	i	1	1	- }	i
11. Stomach Diseases	114	7**	1	1	1	-	00	-	00	-	*	01	1	Ŧ.	j	-	1	1	-	1	10	- 1	:	_
12. Pancreas Disease	-	1	ŀ	1	1	1		1	1	1		1	1		1	i	1	1		1	1	1	1	i
13. Hepatitis	11	1	- 1	1	1	1	1	1	1	-	-	1	1	_		1	- 1	:	15	i	-	1	1	
(Billary Calculus		1	i	1	1	1	1	i	1	1	•	1	:	.,	- 1	:	1	1		i	1	1	1	•
14. { Jaundice	43	-	1	-	1	-	00	1	-	1	-	04	-	-	1	1	1	1	O.	1	1	-		
15. Liver Disease	93	80	-	1	-	61	¢1	i	1	-	19	1	1	-		01		1		1	-	-	-	61
16. Spieen Disease	9	1	1	1	1	-	1	i	1	•		1	1	.01	-	1	-	_		1	1	-	1	i
17. Bowel Diseases, etc	17	2	1		1	-	1	i	- 1	-	-	-	1		_ i	-	1	-	01	1	1	1	1	_
18. Mouth Disease	1	1	1	1	1	1	Ì	i	+	1	1	1	1		1	:	j	1		1	1	1	i	į
IIIORDER 5. Urinary Organs	271	21	-	1	1	01	10	*	10	90	15	*	04	C)		80	_ i	_ ;	10		2	- 1	-	
1. Nephritis	\$	-	1	:	1	1	-	1	-	1	1	1	-	7	i	-	1	1	•	1	-	-	1	i
2. Ischuria		-	i	-	1	1	1	1	-	1	Ť	i	1		i	-	1		1.0	- 1	1	1	1	į
3. Bright's Disease of Kidneys	96	-	1	ij	1	01	7	-	04	7	00	94	-	- 1	i		1	1	G4	1	-	1	**	
4. Diabetes	40	-	1	-	1	1	i	i	1	01	ph	-	-	1	1	-	1	1	-	1	1	1	1	
5. Calculus (Gravel, etc.)	16	1	1	1	ì	1		-	1	;	1	;	+	,	1	i	i	1	190	1	CH	1	1	i
6. Cystitis		1	1	1	1	1	1	-	7	-		+	1	- 1	1	1	1	į	*	1	i	- 1	1	i
7. Kidney Diseases	83	0	-	1	1	1	04	-	1	24	9	H	1	-1	1	7	1	1	01	7	-	1	1	
IIIOEDER 6, Generative Organs	15	- 1	i	i	1	1	i	1	-	- 1	64	1	-	-	_ (- 1			_,					Ì

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2. Diseases of Uterus	6	1	+	+	1	1	1	- 1	1	1	-	i	i	+	1	!	-	I	:	+	+		:
8. Hydrocele	İ	1	+	+	-1	1		- 1	1	1	1	Ť	İ	t	71	1	1	1	:	+	+	- 45	:
III ORDER 7. Organs of Locomotion.	0	+	1	-	+	- 1	1	:	-	1	1	1	i	+	1	4	- [1	-	-	+	-18	:
1. Arthritis	i	+	1	1	1	1		:	1	-	1	1	İ	+	1	1	1	I	:	÷	+	1	:
2. Joint Diseases	0	1	-	-	1	1	1	- 1	-	i	1	1	1	1	1	;	1	1		-	1	1	:
III ORDER 8. Integumentary System	88	i	-	C4	63	1	100	1	- 1	24	9	C.	1	-	1	- !	1	2	_	60	+		:
1. Phlegmon	88	1	-	01	1	1	-	- 0	1	i	1	-	i	1	i	1	1	*		01	+	- (1)	:
2. Ulcer	6	+	+	-	1	-	1	- 1	;	1	-	i	1	1	ī	1	1	1	-	+	+		•
3. Skin Diseases.	12	+	:	:	_	-	69	7	1	64	*	-	t	+	1	!	1	г	_	-	+	1	:
CLASS IV.—DEVELOPMENTAL DISRASES	2,033	-	19	15	2	22	5	26	65	20	70	19	10	-	7	2 19	*	56	×	38	-	90	21
IVORDER 1. Dev. Dis.of Children	803	-	60	6	-	10	53	9	10	10	15	90	-	9	03	9	65	10		=	-	9	2
1. Still-born	169	-	00	03	00	10	21	*	00	8	=	00	1	10	04	ю	60	6	-	=	-	10	~
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8. Oyanosis	-	1	1	1	-	1	- 1		1	1	1	1	1	1	-	ſ	1	i	1	+	1	ð.	•
4. Spins Binds	-	1	-	1	i	1	1	*	i	1	i	1	Ť	-		1	1	1		+	1		
5. Other Malformations	10	+	- 1	1	1	1	1	•	:	i	i	1	-	1	1	1	- (1	. 1	1	-	-	_
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7. Injury at Birth	7	1	1	1	1	1	1		1	1	1	1	1	1	-1	1	3	i	1.	-	1		
14ORDER?. Dev.Diseases of Women	518	-	9	01	I	-	.00	1	60	*	9	-	-	1	-4	*	1	93		*	-	-	•
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TABLE XVI. -Continued .- Causes of Death, Classified.

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	Gr. Traverse.	
	Oladwin.	
	Genesee.	
	Emmet.	
	Eaton.	
	Delta.	
	Crawford.	
	Chinton.	
	Clare.	
2	Chippewa.	
-1881	Cheboygan.	
IES.	Charlevolx.	
COUNTIES1881.	Cass.	9 9 7 7 7 7 7 7 7 7
00	Calboun.	
	Branch.	
	Berrien.	
	Benzie.	
	Bay.	
	Burry.	
	Baraga.	
	Antrim.	
	Alpena.	
	Allegan.	
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	1 10 10 1 1 1	11117	01 21
	1111	11111	11111
111111111111		1-111	TITI
111111111111	1 2 0 0 1 1 1	1 1 0 - 01	1 1 04 1 1
Hilling	1 2 8 8 1 1 1	1 1 1 1 9	1 9 1 1
	1111	1 1 1 1 1	11111
1101010880		84 84	0 5 S 64
	2,088 862 89 80 14 41	C4	-
	BEES	l l l l ueu	11111
ocomotion.	L DISEASES Children	Women	
900	Chi	josi	
Verue	CLASS IV.—DEVELOPMENTA IV.—ORDER I. Dev. Dis. of I. Still-born	4. Spina Binda	Dysmenorrhen
ma of I	o. Drin Diseases -Orden L. Dev. Dis. of 1. Still. born	nath h	Childbirth
1 1 2 3	Stor.	doru Sirti	ife.
4	EVI L. I. I. I. I. I. I. I. I. I. I. I. I. I.	Mali dali ng	of Loirt
	ER I.bo	er h ethii ary	indt ildt orti
	o. Drin Disease ORDER I. Dever. I. Still.born Infantile Premature 3. Cyanosis	4. Spina Bifida 5. Other Malformi 6. Teething 7. Injury at Birth —Onder?. Dev. I	Childbirth
	6 5 1 1 6 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4 5 5 1	ri oi
	5 2	14	

TABLE XVI.—Continued.—Causes of Death, Classified.

											8	COUNTIES1881.	IES.	-188	,										
CAUSES OF DEATH,-1881.	ATATE	Alcona.	Allegan.	Азрева.	Antrim.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch. Calhoun.	Cass.	Charlevolx.	Cheboygan.	Сриррема	Clare.	Clinton.	Crawford.	Delta.	Eaton.	Emmet.	фепевее.	Gladwin.	Gr. Traverse.	Gratlot.
IVORDER 3. Dev. Dis. of Old People.	725	1	80	-	=	1	0	7	1	16	15	53	10	02	1	-	01	6		8		-	17	1	-
1. Old Age	725	1	30	-	**	i	Oi.	*	1	16	12	8	10	80	1	-	01	6	1	10	0	1		-	-
IVORDER 4. Diseases of Nutrition	855	1	CI	1	i	-	-	14	Cł	00	100	+	- 1	1	-		100	_!	-	-	60	-	- !	-	- 1
1. Atrophy and Dability	855	1	C.	İ	i	1	-	14	69	20	60	-	+	1	-		90	1		-	80	-	-	1	+
CLASS VVIOLENT DEATHS	996		7	1-	64	01	(D)	98	00	18	55	50	64	*	-		9	-	CH	8		-	8	CH	
V ORDER I. Accidentor Negligence.	670	1	7	7	64	64	00	1	90	01	9	=	1	10	60		20	-	01		-	-	1	1	:
1. Fractures and Contusions	92	1	1	1	i	1	-	-	1	03	01	9	+	+	1		64	-	1	_	1		9	1	÷
2. Wounds	56	1	1	1	i	İ	1	÷	+	7	01	1	1	-	+	1	1	,	_	1	1		G4	1	+
3. Burns and Scalds	175	1	01	69	1	1	-	T	-	1	1	1	+	1	1	,	-	+	-!	-	-	69	1	1	-
4. Poison	36	1	-	0	1	-	1	-	1	-	-	OI.	1	-	+	1	1	1	1	1	1	-	1	1	1
5. Drowning	125	1	-	04	-	-	1	9	t-	10	-	G	1	-	60	1		-	-	61	_	-	04	1	+
6. Suffocation	32	1	1	i	-	1	=	÷	-1	1	1	+	-	-	1	1	1	1	1	1	1		-	1	1
7. Otherwise	81	1	C4	C1	Ť	Ť	Ť	Ť	1	4	1	-	-	-	1	+		61		F	64	-	-	+	-
VORDER 2. In Battle	- 1	1	-		Ť	Ť	+	Ť		-	1		1	-	-	+		-			_ _	1	ı.	-	+
V ORDER 3. Homicide	613	1	1	1	Ì	i	1	1	Ť	+	+	1	1	-1	+	1	4	1	1	1	1		-	4	
1. Murder	7	1	1	1	İ	1	7	1	1	1	1	+	1	1	1	1		-	1	1	1	+	Ļ	+	1
VOnder 4. Sulcide	57	1	1	1	İ	Ť	1	+	÷	1	60	0	1	1	1		1	1	1		01	,		-	-
1. Wounds						ĺ					l	÷					1	ŀ			!		1		

III1. Discases of Nervous System	83	38	101	8	8	81	Ī	99	39	9	06	ā	80	36	01	2	31	ī	10	6,	-	_	-	H	
2. Diseases of Organs of Circulation.	61	+	-	F=	100	00	1	20	1	64	88	-	1	24	-	27	21	1	12	9	-	_	_	61	
3. Diseases of Respiratory Organs	65	=	61	1 9	*	=	ï	7	38	10	20	11	4	38	-	8	50	04	=	9	91		19	-	
4. Diseases of Digestive Organs	14	7	*	-	8 8	7	-	3	35	1	62	-	-	15	10	17	os.	-	-	0	-	-	01	-	- 69
5. Diseases of Urinary Organs	15	01	-	9	40	-	1		16		13	*	i	-	7	13	=	-	10		-	**	20	1	
6. Diseases of Generative Organs	1	04	-	- 1	1	- 3	1	1	-	- 0	94	1	1	1	1	- 1	=	- 1		- 6	1	- 1	1	_	
7. Diseases of Organs of Locomotion	1	1	-	•	- ;	- 1	i	1	i		1	i	i	- 1	1	*	÷	-	-	-	- 1	÷	1		
8. Dis. of Integumentary System	99	1	-	Q4	1	- 1	1	94	~	-,	99	-	1	1	1	10	-		01	1	1	17		1	
IV1. Developmental Dis. of Children.	6	65	6	8 18		9	1	14	13	64	20 20		1	=	Ci	10	6	-	12	00	30	61	10		
2. Developmental Dis. of Women	8	- 1	-	20	9	60	1	00	-	00	7	-	1	-	49	40	- 1	-	60	-	-	_		-	- 69
3. Developmental Dis.ofOld People	ŝ	10	90	13	51	7	i	30	55	÷	27	-	- 1	10	04	31	10		-	C+	-	9		01	- 01
4. Diseases of Nutrition	۵	60	-		1.	:		Ĉ1	9	8.	14	i	-	٠	01	04	00	Q+	63	-	64	_	1	1	
V1. Accidentor Negligence	9	7	150	7	63	01	1	10	10	1	15	-	NO.	9	-	10	69	-	Ot.	-		89		01	- 65
2. Battle	1		+	i	- 11	;	1	1	1		1	i	1		1	:		+	-		1	ŧ	1		
8. Homicide	i	-	-	i	1)	1	-	1	1	1	:	1	1	1	- 1	-1	-	-	- 1	-	1	- 1	1	
4. Suloide	1	T.	-	10	-	1	1	4	1	1	1	i	1	-		04	-		-	-	1	_			
5. Execution	1	1	+	1	-1	1	1	1	1	1	1	1	1	1	1		- 1	1		-	1		Ĭ	1	
6. Violent Deaths	10	10	04	00	20	*	1	00	63	-	9	*	60	-	-	9	00	-	*	9	40	-		-	
GLASS I.—ZTMOTIG	105	78	101	114	96	99	1	134	177	10	203	69	21	120	09	86	62	7 103		7.4	172	21	188	57	~
IORDER 1. Miasmatic	104	78	10	101	96	99	- 1	130	171	10	204	90	61	611	99	98	12	7	103	4	170	22	188	57	-
1. Small-pox	Ī	,	+		-1	- 1	1	-	Ĭ		*	÷	T	1	9	:	1				1	1	Q.		
2. Moasles	1	310	-	40	~	O1	i	G.	9		15	¢1		18	-	10	4	-		1.	19	01	64	21	
3. Scarlatina	1	0	01	01	7		į	11	1		28	05	- }	1	1	02	4	04	14			11	01	1	
4. Diphtheria	65	20	10	43	57	4	1	98	12	Ŀ	180	4	#	13	10	21	17	64	52	_	18	88	134	_	_
5. Quinsy	1	1	-	-	- 1	64	į	-	;		1	1	-	i	-1	1	-	1		- 1	_	1	_	1	
& Group	01	12	8	-	01	-1	1	7	9		53	+	1	61	60	•	-	C)		_	33	-	7	-	

TABLE XVI.—Continued.—Causes of Death, Classified.

								j	ĺ		8	MTH	Counties,—1881							ļ					
CAUSES OF DEATH,—1881.	Hillsdale.	Houghton.	Huron.	.madgaI	.alnoĮ	Losco.	Isabella.	Isle Royal.	Jackson.	Kalamazoo. Kalkaska.	Kent.	Кемеспаж.	Гике,	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.	Menominee
All Causes	872	513	242	298	300	171	176		407	437	38 1022	122	84	306	96	413	259	19	305	181	0	406	184	297	130
Specified Causes	348	509	508	275	584	146	149	1	386 4	410	83 972	100	1 4	284	93	870	239	19	183	164	1 -	381	162	979	130
Causes not Specified	22	65	100	65	16	88	5.	T	21	53	20	50 13	**	61	00	45	90	-	18	17	1	33	61	18	50
CLASSES.									-	1	1									-					
IZymotic Diseases	105	85	19	104	114	96	99	1	134	1771	009 01		10 22	150	09	98	70	7	103	74	i	172	112	188	22
IIConstitutional Discases	65	5	14	8	46	1	19	1	89	28	2 13	136	20	38	3 10	83	#	09	46	16	1	23	15	81	15
IILocal Diseases	316	6	35	73	82	8	43	1	182	651	12 22	-	8 68	89	10	138	88	*	83	48	-	65	21	51	19
IVDevelopmental Discases	254	100	18	24	88	15	9	1	65	45	10	08	1	65	=	48	25	63	25	15	99	72	0	10	10
VViolent Deaths	15	12	7	15	15	1	9	-	81	100	-	53	9	7	61	13	9	01	16	13	1	4	10	7	50
Unclassified	1	1	9	C+	1	-	1	i	i	1	+	-	1		01	0,	1	- 1	01	1	-	80		-	6
Orders.	_										_	_													
I1. Miasmatic Discases	101	78	8	104	113	86	99	1	130	111	10 604		48	9 119	9 6	98	73	7	103	74	1	170	113	188	52
2. Enthetic Diseases	1	1	1	- 1	1	1	1	1	i	1	1	1	-	1	-	1	i	1	1	1	- 1	1	1	1	1
8. Dietic Discases.	1	- 1	1	- 1	1	1	Ì	i	1	1	1	7	-	1	1	1	1	į	1	;	-	04	1	- 1	_
4. Parasitic Diseases	-	-	1	1	-	1	İ	1	*	÷	1	-	1	-	1	1	1	1	1	1	1	1	1	1	1
II1. Diathetic Diseases	13	9	*	19	11	-	ÇI	-0	17	21	-	24	80	50		4	18	-	11	01		10	C4	-	- 01
2. Tubercular Diseases	49	9 16	10	4	8	9	17		41	9	1	115	- 2	25		99	26	64	32	=		18	18	- 68	13

4. Glanders	i	Ť	Ť	1	1	Ť	1	Ť	t	1	+	1	+	_	1	1	1	+	-	+	1	1	1	1	1
I,-ORDER 3, Dietic	i	i	i	1	1	i	i	i	1	1		-	_	- !	_	1	- 1	1	1	1	1	- 3	ci.	1	1
1, Privation	1	i	i	1	1	i	1	1	1	_	+	1	1	• !	1	1	į	1	1	1	1	1	1		4
(Purpura	i	i	i	i	1	1	1		1	1	1	1	1	1	1	1		1	1	1	-!	- 1	1	1	1
2. Rachitls	i	i	Ť	1	1	1	1	+	1	1	1	-	-	-	1	1	1	4	•	1	1	4	1	1	1
Sourvy	i	i	i	1	1	i	i	+	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3. Delirium Tremens (Alcoholism)	1	Ť	Ť	1	+	1	1	i	-	1	-	04	1	1	1	1	1	1	1	1	- !	-	_	1	1
4. Intemperance	Ť	i	i	Ť	Ť	Ť	Ť	Ť	1	-	;	01	1	1	1	1	1	1	1	1	1		01	1	1
IORDER 4. Parasitic	-	i	T	1	7	1	Ť	-	*	1		_	_ i	-	_		- 1	1	_	1	1	_!	_!	_	_
1. Thrash	-	i	Ť	1	-	+	1	1	10	1	1	+	1	1	1	1	- 1	1	1	1	_ !	1	1		_!
2 Worms	i	i	Ť	Ť	1	1	Ť	1	-	+	+	+	1	-	+	1	1	+	1	1	1	1	1	1	1
3. Disease of Scalp	i	Ť	Ť	Ť	i	Ť	Ť	+	1	1	+	1	Ļ	-	+	1	1	1	+	+	1	1	1	1	1
CLASS II.—CONSTITUTIONAL	23	15	*	9	46	7	19	1	28	28	2 13	136	90		36	10 8	83	=	60	19	16		3 15	55	2 15
IIORDER 1. Diathetic	13	10	4	19	=	7	04	1	11	12	H	24	200	60	11	→	12	18	-	*	63		-	64	-
1. Gout	i	1	i	1	i	÷	i	t	1	+	- 1	1	_:	+	1	1	;	+	1	1	1	4	1	1	1
, Anomia	1	1	i	+	1	+	+	1	+	1	1	+	1	1	1		-	1	1	1	1	1	1	1	1
Dropsy	10	20	1	G,	C4	H	1	1	Q¥	+		18		63	00	*	6	6	_	-	-		60	01	-
3. Cancer	90	04	91	10	9	1	01	1	12	80		0		,	90	_	11	8	-	-	_		61	_	4
4. Noma (Canker)	i	1	+	1	03		1	+	÷	1	-	-	1	- 1	1	1		-	:	-	4	1	1	4	1
5. Mortification	1	i	-	1	÷	1	-	+	-	1	1	1	+	-	1	1	1	1	1	1	1	1	1	1	1
II,-ORDER 2. Tubercular	6	18	ů,	7	20	9	11	1	7	46	=	113	19	*	55	9	99	98	65			18	138	55	13
1. Scrofula	64	-	-	i	01	÷	+	+	1	1	_	-	1			1	1	1	1	_	-	1	1	1	1
2. Consumption of Bowels	1	i	1	00	-	1	+	+	1	+	1	9	1		-		60	1	1	1	1	1	1	1	1
2 Phthiels (Consumntion of Lungs)	47	2	0,	37	650	9	1	1	-	46	10	901	10	9	53	20	53	53	2 31		13	16	13	-	13

TABLE XVI.—Continued.—Causes of Death, Classified.

						1					ខ្ញ	COUNTIES188	188	1881	İ						Ì	-			
CAUSES OF DEATH,—1881.	Hillsdale.	Houghton.	Huron.	Ingham.	Tonia.	losco.	Isabella.	Isle Royal.	Kalamazoo.	Kalkaska.	Kent.	Кемсерви.	Lake,	Lapeer.	Leelanaw.	Lenawee.	Plaingston.	Mackinse.	Macomb.	Manistee.	Maniton.	Marquette.	Mason.	Mecosta.	Menominee.
7. Whooping cough	60		1	1	91	1	- :	i	69	10		00	1	G.	-	2		1	10	10	1	*	61		E
(Typhoid Fever	27	19	7	27	7	-	30	1	61	138			01	- 01	-	9	6	-	83	10		36	01	05	-
8. Typhus Fever	- 1	-	1	1	1	1	1	1	1	-	_		1		_	1	1		1	i	1		1	1	4
Typho.malarial Fever	1	-	1	1	Ť	i	1	1	1	1	1		1		-	-	-1	1	-	20	1	-	1	1	1
9. Erysipelas	61	1	-	8	60	i	1	1	*	100	-	01	1	-	-	*	60	1	64	1	-	-	6.0		
10. Puerperal Fever	1	1	1	1	64	1	01	1	-	1		-	1	-	10	1	-	1	1	i	-	*	1		1
11. Carbuncle	1	1	1	1	1	1	1	1	+	1		-	1	1	1	1	1	i	1	i	1	1	1	1	4
12. Induenza	00	i	1	1	-	:	1	+	1	1	1		1	1	1	- 1	04	1	1	1	1	1	1	1	1
13. Dyscutery	9	60	1	63	9	-	99	1	9	9	1 18		1	-	90	•	15	1	7	1	1	7	64		9
14. Diarrhea	*	96	10	80	1	01	1	1	9	9	*	_	1	7	-	10	9	-	21	9	1	27	200	1	_
15. Cholera Infantum	7	00	*	19	130	7	00	1	88	90	20		13	25	12	51	7	i	9	12	1	13	9		2 10
Cholera Morbus	-	60	¥	60	-	21	-	1	10	-	1	-	1	-	63	04	64	1	- ;	01	1	-	04	1	
Jo. Cholera	1	1	H	1	1	i	1	1	1	1	1		1	1	1	_	1	1	1	1	1	Ct	1	1	
17. Ague	61	-	н	1	04	04	100	1	ÇI	9	16		+	-	50	ю		1	100	60	1	-	51	**	-
19, Remittent Fover	00	63	63	*	1	-	-	1	60	64	1	00	4.		6	60	1	1	*	C.	1	60	05		9 12
19. Rheumatism	9	1	-	0	*	İ	1	1	4	-	-	2	-	1	-	-	-	1	-	-	1	60		1	-
I,-ORDER 2. Enthetic			- 1	1	1	i	1	1	+	- 1	1	-	-	1	1	1	- 1	- 1	1	1	- 1	i	-	- 1	1
J. Syphilis	1	1	1	1	i	i	1	1	1	1	1	-	1	1	1	1	1	1	i	1	i	1	1	1	1
Stricture of Urethra	1	1	1	1	i	Ť	1	1	+	1	1		+	1	1	1	ı	1	1	1	i	1	i	1	1
Btricture	_!	1	1	1	1	i	1	+	+	-	4	_	4	4	1		_	1	1	-				_	4

5. Hydrophobia	:	i	-		-														-						
4. Glanders	1	t	i	÷	+	_	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	i	1	1
I,-ORDER 3. Dietic	i	-	1	+	i	+	1	1	1	1	-	_	_	1	_	J	_	- !	_ !	_	- 1	01	1	- 1	1
I, Privation	1	1	1	1	1	_	1	1	1	1	4	- 1	1	1	_	1	-	1	1	1	1	1	- 1	-	-1
Purpura	1	+	+	1	1	1	1	1	1	1	1	i	1	1	1	1	1	_!	1	1	1	1	1	1	1
2. Rachitis	1	1	1	1	_	1	1	1	1	4	1	_	-	j	_	1	1	1		1	1	1	1	1	1
Sourvy	1	+	i	+	+	+	-	1	1	1	1	1	1	1	1	1	ļ		1	1	1	1	1	-	1
8. Delirium Tremens (Alcoholism)	1	÷	1	+	4	+	1	1	1	1		94	1	1		1	1	1	1	1	1	1	1	1	
4. Intemperance	1	t	÷	+	+	-	+	1	1	1		01	1	1	1	1	1	1	1	1	1	CI	1	1	1
IOnder 4. Parasitio.	+	i	i	1	-	1	1	-	-		7	_	_		-	_	1		_	1	_1	1	_ i	- 1	- 1
1. Thrush	-	1	+	1	-	+	-		10	1		1	i	1	1	_!	_	1	1		- 1	-	ı	1	1
2 Worms	1	+	1	+	1	+	1	,	-	_	1	1	1		1	1	1	1	1		1	- 1	1	1	1
3. Disease of Scalp	1	1	i	Ť	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	i	- 1	1
CLASS IL.—CONSTITUTIONAL	65	12	2	9	16	7	19	2	89	88	2 136		00	38	10	83	4		3 46	3 16		23	15	61	-
IIORDER J. Diathetic	13	10	*	13	7	-	64	7	17 1	12	1 24		80	8 11	_	100	7 18		1 14	6	1	10	C4	_	-
1. Gout	1	1	+	1	+	+	+	1	1	1	1	1	1	1	1	1	1	:	!	1	1	- 1	į	1	1
9 \ Anamia	1	+	1	1	1	÷	1	1	1	+	1	1	1	1	1	5	1	1	1	1	1	1	1	1	1
Dropsy	49	20	+	g _a	04	-	1		04	-	- 13	1	_	60	50	6	_	6		2	1	100	01	1	
3. Cancer	90	Q4	01	90		:	01	-	12	90	-	0			90			8		7	-	64	1	_	1
4. Noma (Canker)	1	;	+	1	-0	-1	+	1	1		-	-	1	1	1	1	-	-	1	1	i	1	i	1	i
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TABLE XVI.—Continued.—Causes of Death, Classified.

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TABLE XVI.-Continued .- Causes of Death, Classified.

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1. Arthritis		1	1	1	1	1	1	i	+	1	:	+	+	1	-	1.	-	1	-!	1	:	:	1	1	i	-
2. Joint Diseases	***************************************	1	-	i	1	-	1	1	1	1	1	+	+	1	1	1		Ç4	-	1	1	1	:	1		1
MIII,-ORDER S. Integument	umentary System.	63	J	~	04	04	1	i	1	Q4	-	-	02	-	-	1		9	1	-	04	1	1	-	-	
I. Phiegmon		1	1	1	1	1	1	1	1	+	1	1	60	-	1	1		Q1	-	1	1	1	1		1	1
2. Ulcer	***************************************	-	-	- 1	Q1	-	1	1	1	7	1	1	1	1	1	1	1	+	1	1	1	- 1	1	- 1	1	-
3. Skin Diseases	***************************************	00	1	-	1	-	1	1	1	-	-	÷	+	-	1	1		60	1		04	1	1	1		-
CLASS IV DEVELOPMENTA	TENTAL DISEASES.	20	37	18	25	65	15	2	1	68	2	20	03	90	-	55	-	00	23	55		120	25	-	6	0
V ORDER 1. Dev. Disease	iseases of Children	6	8	0	90	13	2	10	;	77	133	01	22		1	=	01	0	10	-	7	30	100	20	01	-
1. Still.born		O)	22	90	9	23	•	*	1	=	10	04	88	60	1	13	-	10	10	-	-	9	01	96	_	-
2. Infantile	9	1	1					1 -	1		1 04	+	1 -	. 00	- 1	-	1	. 01			7 5			D4 P		
3, Oyanosis		-	1	- 1	- 1	1	1	1	i	+	- 1	- !	1	- 1	- 1	- 1	-!	- 1			1	1	- 1		-!	- 1
4. Spina Biffda		-1	- 1	1		-	1	i	1	+	-	+	1	1	1	- !	1	- !	-	1	4	1	1	1	1	1
5. Other Malformations.	lons	1	~	ì	1	-	1	i	1	1	-:	-1	1	1	1	-1	-	-	- 1	i	1	i	1	1	- 1	-!
6. Teething		1	*	-	01	1	10	1	1	-	+	- ;	60	1	1	-	-		-	-	80		-	-	-	
7, Injury at Birth		1	1	1	į	1	1	1	1	+	-1	1	1	+	1	+		-	1	1	1	1	1	1	1	+
IV ORDER 2. Dev. Diseases of Women	iseasesof Women	90	1	1	93	60	9	00	1	60	*	60	1-	-	-	1	42	2		-	00	-		-	-	60
1. Turn of Life			1 1	1 1	1 "	11	11	Ti	11	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 !	1.1	1	1 1	11	1 1	11	1 1	1
Childbirth		60	1	1	64	-	9	60	1	60	*	00	9	-	-	-	4		-	-	64	:	-	-	_	60
2. Abortion		1	1	1	1	CH	1	Í.	1	+	1	-	1	1	4	+	1	1	1	1	1	1	1	1	1	
Uterine Hemorrhage	rhage		1	1	1			-	1	-	-	-	-	-	-	-	-	-	-1	_	-	-	-	-	d	-

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TABLE
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											00	COUNTIES1881	E8.	-1881.							1			П	
	Hillsdale.	Houghton.	Hurob.	Ingham	.alaoI	losco.	Isabella.	Isle Royal.	Jackson.	Kalkaska	Kent.	Keweenaw.	Lake.	Lapeer.	Leclanaw.	Lenawee.	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Мазоп.	Mecosta.	Menominee.
- Feople.	25	9	00	13	12	01	-	1	50	25	- 27		-		01	31	10		H		-	9	10	01	•
old Ago	25	2	00	13	15	61	-	1	500	66	- 27		1	10			10	-	11	01	1	9		91	
IV. ORDER 4. Diseases of Nutrition	•	20	-	1	+	1	1	1	04	10	7		1	*	64	C.	93		60	-	61	34		i	- 1
1. Atrophy and Debillty	10	99	-	T	-	Ť	1	ī	G+	9	7	14	!	-	01	64	20	. 01	00	-	04	25	-	1	1
ULASS VVIOLENT DEATHS	11	12	11	22	61	-	9	1	20	00	55		10		00	13	9	C.	16	13	1	3	10	1	8
VOnder 1. Accident or Negligence	9	7	69	*	6	60	C4	1	10	19	-	15	-	9	9	0	64	1	9	1	- 1	*	00		
1. Fractures and Contusions	51	-	1	1	01	1	1	1	04	-		*	-	65	1	-	1	1	-	1	1	-	_	_	-
2. Wounds	1	!	1	1	1	i	1	1	-	1		-	;	4	1	1	1	1	1	- 1	1	1	1	1	į
3. Burns and Scalds	1	C1	63	1	60	İ	1	1	01	-	1	1	4	01	61	64	1	-	-	61	-	-!			
4. Polson	1	-	-	7	H	i	1	1	-	1	-	1	1	1	1	-	_	1	1	-	1	i		-	1
5. Drowning	_	-	9	-	91	-	1	1	-		-	-	1		-	1	1	1	9	-	1	64	1	1	i
6. Suffocation	-	-	1	-	İ	1	-	1	00	-	-	01	1	1	1	1	i	1	1	1	i	1	01		_
7. Otherwise	64	-	-	-	-	01	÷	+	1	-		=	1		1	-	_	-	CI	1	1	-	1	i	_
VOnder 2. In Battle.	1	i	-	1	i	Ť	1	÷	1	1	- !	1	1	1	- 1	1	1		1	1		1	i		- 1
VORDER 3. Homicide	1	1		1	1	1	1	1	+	1	:	1	1	1	1	- 1	1	1	1	1	4	- 1		1	- 1
1. Murder	1		1	1	Ť	i	Ť	+	1	1		-	-	1	1	i	1	1		1		1	1		
VORDER 4. Sulcido	-		1	4 0	i	i	İ	1	-	+		1		,	1	91	7	1		1		1	-		-
I. Wounds			1	Ä	ĺ	i	-							1		i	į	į			į		Ì	Ì	÷

2. Polson			:			I		1	7		-	-	:		1	1	Ī	1	1	:		1	i	_	i	:
8. Drowning	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	i	-	1	1
4. Hanging	1		****	64	-	i	1	1	-	1	1	1	1	1	1	1	-	1	i	1	1	1	1	1	-	i
5. Otherwise and not Specified	-		-	-	1	1	1	1	C.	1	1	1	1	1	-	1		-	1	1	1	1	1	1	1	Ŧ
VORDER 5. Execution	i	1	- 1			1	-	1		1		1	1	1	1	1	İ	1	i	1	1			-	-	i
1. Hanging	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	İ	1	1	1	1	1	1	i	1	i
V ORDER 6. Violent Deaths not In-	40		01	60	90	*	7	-	00	90	-	9	*	01	-	-	0	60	-	9	0	1	40	-	*	11
UNCLASSIFIED	+	1	9	C.	1	-	1	1	1	1	1	1	1	1	01	1	09	1	1	64	-	- 1	63	1	-	6
1. Head Discase	1	1	-			1	1	1	1	Ť	-	1	1	1		1	1	1	Ť	1	1	1	1	1	T	1
2. Hemorrhage.	-	1	1	-	Ī	-		1	1	i	1	ī	1	1	T	1	1	1	-	-	1	i	-	1	-	1
3. Inflammation	1	1	9		1	-	1	1	1	1	1	1	1	-	1	1	-	i	1	-	-		1	i	1	0
4. Otherwise	1	1	-1	1	1		1	1	1	1		.1	1	1	01	1	-	İ	İ	1	1	i	.04	1	1	1
Causes not specified	24	15	35	25	36	88	27	1	8	27	ю	90	13	*	61	90	45	50	- 1	18	17	-	8	22	18	50

TABLE XVI.—Continued.—Causes of Death, Classified.

												-	COOLI	COUNTIES	81881	81.											
CAUSES OF DEATH,—1881.	Midland.	Missaukee.	Моптое.	Montcalm.	Мовітютевсу.	Muskegon.	Mewaygo.	Oakland.	Осеапа.	Ogemew.	Osceola,	Oscoda.	Otsego.	Ottawa.	Presque Isle.	новесошшов.	Saginaw.	Santlac.	Schoolcraft.	Shlawassee.	Bt. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford,
All Causes	83	12	346	396	10	462	165	390	166	52	19 127	11 11	88	430	88	12	957	868	7	152	464	533	344	310	405	5250	73
Specified Causes	64	50	310	333	1 0	395	145	363	144	1 21	16	113	18	859	1 88	12	911	259	=	240	424	8	24	665	387	1515	13
Causes not Specified	19	-	27	4	-	67	80	22	61	9		14		19	10		46	68	20	15	40	10	65	18	50	108	W)
CLASSES.		1				1	İ	Ì	1	1	1	_	_							1				İ	i		1
IZymotic Diseases	2	6	105	165	C4	64	98	87	29	2	-	53	2	133	-	*	313	81	-	88	147	63	150	103	92	674	100
IIConstitutional Discases	6	94	54	49	j	7	19	29	15	01	-	15	1	8 63	•	i	145	8	-	4	46	946	7	60	99	405	1
IIILocal Diseases	14	0	90	88	04	107	3	143	31	0	60	34	4.	6	10	*	282	53	1	80	130	89	89	8	147	199	18
IVDevelopmental Discases	=		48	53	-	<u></u>	7	916	26	61		16	60	55	00	-	118	22	1	25	43	20	68	55	23	230	63
VViolent Deaths	7	20	20	25	i	13	7	17	10	-	20	-	1	8	*	60	19	72	4	6	21	23	6	19	I de	8	-
Unclassified	01	-	01	-	1	1	-	.00	+	:	:	-	-	1	1	1	01	01	1	İ	1	1	ėt.	1	64	10	64
Orders.									-	-	_																
I1. Miasmatic Diseases	24	6	105	164	Ç4	212	98	87	99	10	7	43	2	133	7	-	615	81	-	98	147	63	120	101	93	199	34
2. Enthetic Discasos	1	1	1	-	1	-	İ	i	-	1	-	1	1	1	1	1	1	- 1	1	i	Ť	i	i	i	1	04	
3. Dietic Discases	1	i	1	1	1	-	i	i	1	1	1	1	1	1	j	1	-	1	1	1	1	1	1	1	1	40	1
4. Parasitic Disenses	1	1	i	1	1	Ì	Ť	1	-	+	1	1	1	1	1	1	1	1	Ī	Ť	Ī	1	1	O1	1	Ť	-
II1. Diathetic Diseases	C4	7	F	19		=	*	11	10	1	-	9	Q#	17	01	1	30	9	:	11	16	13	30	17	55	69	-
2. Tubercular Diseases	7	-	65	37		30	15	20	6	01	_	-6		46	O.	-	115	23	-	5	30	99	36	2	53	336	9

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300	8	193	112	2	20	01	30	135	23	88	=	45	1	CH	20	ŧ	57	674	667	12	00	19	130	1	67
19	10	36	8	10		1	4	15	1	68	4	1	1	1	01	į	00	60	8	1	;	60	16	-	-
5	=	33	77	*	1	4	-	=	*	15	1	15	- 1	1	1	1	1	103	101	1	-	-	8	-	*
64	61	12	10	-	-	1	-	64	*	13	7	- 00	1	- 1	01	1	*	150	120	1	90	,	85	•	-
01	12	17	23	*		-	1	17	*	6	20	đ	i	1	-	1	01	63	63	,	- 1	20	27		G#
30	17	52	27	10	- 1	1	01	53	10	30	10	133	1	-	-	1	1.	147	147	-	04	=	8	-	9
53	9	63	=	9			-	=	*	6	1	23	;	1	*	:	Gi .	86	98	1	13	00	2	-	G)
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13	133	13	1-	0	1	:	01	2	7	7	+	19	1	1	1	- :	(I)	81	15	1	10	00	83	-1	-
1101	88	7	#	90	1	1	90	99	1	30	11	66	1	2	21	1	25	615	21	1	10	16	103	*	98
*	1	1	1			1	1	-	1	1	q	91	1	-	1	1	1	4	*	1	1	- 1	1	1	1
0	1	20	-	1	1	Ť	1	C.	1	-	Ť	-	i	1	i	i	i	7	-	i	i	i	60	i	Ħ
28	00	100	77	9	i	i	i	10	01	10	60	17	i	O)	+	1	6	133	133	1	-	27	52	i	90
01	-	1	1	i	1	-		H	1	01	1	- 1	1	1	1	i	1	1+	1-	1	T	1	C4	1	1
7	-	i	1	i	i	i	1	1	i	1	1	T	1	1	;	1	Ì	4	ю	t	i	1	61	Ť	i
13	20	0	90	i	i	Ì	-	9	0	01	נט	60	i	1	1	İ	-	20	43	i	9	i	0	i	04
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9	60	-	1	i	i	i	1	-	-	i	1	-	Ť	i	1	i	1	10	20	÷	-	-	:	1	+
161	-	*	0	;	-	i	i	13	10	9	01	10	i	i	1	i	:	67	99	1	10	60	72	-	÷
69	12	55	33	90	01		O1	17	76	8	10	G	T	1	-	1	2	87	81	01	91	00	13	1	00
11	9	2		-		-		-	-	64	-	1	:	- 1			00	98	88	1		7	3	:	*
36	-	30	12	93	1	;	-	14	C)	7	-	9	1	1	20	1	4	513	916	1	21	31	47	00	2
7	. :		H		- 14	4	0.	-	~ į	*	1.4.1	- 4	, k-:	1	- 4	,	-)-	64	01				-	· Y	01
48	7	53	9	*	1	1	-	90	60	27	4	13	- 1	-	01	1	7	165	901	03	11	*	69	-	00
88	21	25	50	- 1	-	1	04	25	6	11	d	63	1	H	1	1	1-	105	105	1	1	-	21	1	10
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III1. Dis. of Nervous System.	2. Dls. of Org. of Circulat'n	3. Dis. of Respi'ry Organs.	4. Dis. of Digestive Organs	5. Dis. of Urinary Organs	6. Dis. of Gen'tive Organs.	7. Dis. of Org's of Locom'n	8. Dis. of Integ'ry System	IV 1. Devel. Dis. of Children.	2. Devel. Dis. of Women	3. Devel. Dis. of Old People	4. Diseases of Nutrition	V1. Accident or Negligence	2. Battle	3. Homicide	4. Sufcide	5. Execution	6. Violent Deaths	CLASS I,—ZYMOTIC	IORDER 1. Minematic	1. Small-pox	2. Measles	3. Scarlatina	4. Diphtheria	5. Quinsy	6. Oroup

TABLE XVI.—Continued.—Causes of Death, Classified.

Scathix _ s _ Midneste.														1		١	1				1	
	Montesim.	Monimorchey.	NewayEo.	.besize0	Annoo0	Ogentagon, Ontonagon,	Oscoola.	Oscoda	Otsego.	.awai10	Presque late.	- Воесоптоп.	-wentges	Sanilac	Schoolcraft.	Shlawassee.	St. Clair.	St. Joseph.	Tuscola.	Washtehaw.	Таупе.	Wexford.
	-	1		0	+	***	i	i	1	9	1	***	63	04	1	H	10	-	9	04	80	14
	19		3 7	18	00	-	0	58	_	55	1	-	400	9	1	17	29	13	120	15	15	69
	1	1	i	i	1	1	1	1	1	1	i	1	-	1	1	1	24	-	-	-	1	-
	-	1	1	i	1	1	-	1		-	1	1	-		Ť	- 1	61	1	-		-	10
	10	-	01	92	GR	1	-	00	1	-	1	1	00	-	1	-	-	-	-	10	1	09
	-	:	-	1	24	-		102	1	04	į	1	-	1	-	1	-	04	-	X	*	÷
	1	1	1	1	1	1	+	1		1	1	i	1	i	i	1	+	+	1		-	1
	****	-	:	1	1	1	1	1	1	1	1	;	1	T	i	1	1	+	:	+	1	+
	1	:	10	11	92	1		09	1	00	1	ì	10	85	1	•	00	t-	C4	9	9	19
	6	-	20 5	100	1	-	-	-	_	19	1	i	64	+	1	-	27	04	100	-	7	611
W. C. Monteffa Lufantum	17	-	27 5	1	-	-	-	21	04	7	1	G,	9	1	:	19	2	20	12	01	61	93
Cholera Morlous 1 2	1	-	-	:	-	+	+	1	1	1	i	-	-	1	i	-		1	1	64	+	9
Cowlers	i	-		1	1	+	- 1	1	1	1	1	1	1	ī	i	-	-	÷	+	1		00
И. Акие 6 8	=	1	7 50	1		-	-	-			1	į	9	-	64	80	10		:	9	0	98
18, Kamittant Fever	1		8	04	-	÷	-	-	1	-	69	i	80	1	-	01	10	-	60	01	*	-
19. Kibaumatlam	-	-		82	i	:	:	Gt.	1	24	1	1	9	-	1	-	-	04	62	90	80	81
IORDER 2. Enthatic	-	1		1	18	1 48	-	1	-	- 1	1	1	:	1	i	i	+	+	1	:	-	01
l. syphilis	-	1	:	i	i	+	1	1	1	1	1	1	1	T	Ť	i	i	÷	+	+	-	99
Stricture of Urathra	i	1	1	i	+	1	+	1	1	1	1	1	1	1	İ	İ	t	+	Ť	+	÷	1
Atricture		4	:		-	÷	-	4					3	1	ĺ	Ť	4	÷	-	1	÷	÷

2. Erdrophobla	1	-	-	+	1	:	1	!	1		1	i	1	1	1	1	1	1	1	T	1	:	1
4. Glanders	+	-	1	$^{+}$		1	1	+	+	1	1	1	I	i	:	1	:	1	1	1	1	1	i
L-ORDER & Dietic	1		1	+	- 3	- 1	- 1	- 1	-!	1	1	- 1	1	_			1	1	- 1	- 1	- 1	10	ı
1. Privation	-		1	+	- 30	-	1	+	+	1	1	i	1	1	1	1		1	÷	:	1	1	i
Purpura	1		i	+	1		1	+	+	1	1	1	1	1	1	1	1	1	1	÷	1	1	
2. Rachitis	1	4.7	1	+		1	1	:	+	1	1	1	1	i	4	S.	- 1	1	1	1	7	-	
(Scurvy	1		1	+	•		1	÷	÷	1	1	1	1		1	1	1	i	:	1	:	1	
8. Del'm Tre'ns (Alcoholism)	1	- 10	1	+	ca.	-	1	1	+	1	1	1	1	-	1	1	1	-	1	1	1	09	i
4. Intemporance	1	-	1	-			4	+	+	1	1	1	I	_	1	1	:	1	1	4	:	DI	i
L-ORDER 4. Parasitic	1		1	-		- 1	-	-	+	-:	1	1	j		- 1	- 1	1	1	- 1	04	1	-	į
1. Thrush	-		•	1	-	-1	-	- 1	1	1	1	i.	1	- }	1	1	- 1	1	-7	94	1	-	i
2. Worms	1	-	1	+		1	- 1	+	+	1	1	i	1	1	1	1	1	1	÷	- 1	:	1	
3. Disease of Scalp	1		1	1	-	1	1	1	+	1	1	İ	1	1	E	- }		1	1	4	1.	T	
CLASS IL—CUNSTITUTIONAL	6	2 54	49	_	- 13	67	15	C4	-	10	99	55	4	145	8	~	- 61	46	4	29	99	403	1
IIORDER 1. Diathetic	01	-	21	-	-	=	9		-	9		17	69	30	20	_	19	33	00	17	99	69	7
J. Gout	1	*	1	1		1	1	1	1	1	1	1	J	1).	1	*	1	1	1	t	1	1
Anæmia	1	7	1	+	1	1	1	1	1	1	1	i	1	-	1	1	18 72	1	1	10		1	
"\ Dropsy	-	10	19	1	9	*	64	4.	1	9	*	2	œ1	=	60			9	60	1-	10	50	-
3. Cancor	-	1 5	-	-	-	7	60	+	-	1	1	60		18	H		0	9	01	-	90	33	
4. Noma (Canker)	1	-	9	1	-	94	-	4	4	1	i		114	-	01	-1	-	1	93	00	1	01	
6. Mortification	1	1	1	+	-	-	1	;		1	1	1	29	i	1	1	_	_	1	1	1	1	1
IIORDER 2. Tubercular		1 43	:	;	30 15	25	0	OH.	,	6	_	4	01	115	22	00	31 30	553	36	4	20	336	•
1, Scrofula	1	1	1	1	- 1	-	1	1		1	1	_	18	•	1	4	-	-	1	64	1	60	61
2. Consumption of Bowels	1	00	1	+	10	:	00	+	4	1	1	-	11	60	1	_	01	1	1	#F	OI.	64	j
3. Phthisis (Consumpt'n of L'gs)		40	37	T	15	8	0	01	11	6	_	7	cı	107	8		28	32	50	9	51	295	•

TABLE XVI.—Continued.—Causes of Death, Classified.

)	00001189	971	3	•											
USES OF DEATH,—1831.	Midinid.	Missaukee.	Monroe.	Montenim.	Мопшогепсу	Muskegon.	Newaygo	Onkland.	Осевпа.	Ogemew.	Ontonagon.	Osceola.	Oscoda	Otsego.	Ottawa. Presque lale.	Roscommon.	Saginaw	Sanilac,	Schoolcraft.	Shiawassee.	St. Chalz.	St. Joseph.	Tuscola,	Van Buren.	Washtenaw.	Wayne.	Wezford
troce phalus	1	1	1		1	1	1	İ	1	1		1			:	- 1		-!	1	1	į	1	54	1	1	01	1
18mm 8	1	1	1	i	1	ф	1	i	1	1	÷	+	1	-	1	1	1	1	1	1	-	1	1	1	i	2	1
-LOCAL DISEASES	=	10	90	80	C1	107	150	113	31	0	94	77	×O.	-	16	10	282	65	7	8	130	8	68	8	147	667	18
11. Norv's System.	5	-	85	48	-	36	11	69	77	10		13	4	01	80	9	110	0 13	1	55	8	54	66	64	51	300	
itis	61	-	=	9	i	22	9	1	æ	20	•	04	-	_	123		-	17	1	20	9	00	_	20		89	
ХУ	-	-	1	60	1	24	i	*	i	i	,	1		_	02		-	-	1	1	40	01	1		_	16	i
	i	į	10	1	-	7	1	53	70	1	-	+	1	_	100	-		42	1	8	01	0	61		=	26	1
J	1	1	1	i	į	i	i	01	-	i	÷	1	i	1	1	1	+	1	1	1	-	1	61	1	_	_	- ;
	1	1	-	1	1	1	1	-	;	4	÷	÷	1	1	1	1	1		1	i	i	1	1	1			- !
	-	1	01	1	i	1	-	99	i	-	٠	94	1	_	704	1	!	1	ı	F	1	i	1	2	9	-	
95		1	1	-	1	1	1	-	i	1		÷	1	-1	1	-		26	1	1	į	-	1	1	04	_	į
ilsions	1	1	01	2	1	13	1	10	01	1		01	1	_	6	10	60	30	i	-	90	1	20	60	e.	96	
a Disease	-	1	*	1	1	7	1	15	-	01	÷	1	90	01	-	-	64	20	1	-	*	-		œ	=	3	
psy of Brain	1	1	-	1	1	1	1	-	i	÷	÷	1	1	:		į.		:	1	e.	1		_		04	90	
.nal Fover	1	-	1	61	1	-	90	-	04	i		10	:	_	-	1		61	1	04	-	64	00	-	64	1	
Spotted Fever	1	1	1	1	1	1	1	1	H	i		-	1	_	00	1		-	1	1	1	1	1	1	1	į	1
Konlngitis	1	i	1	1	1	-	F	İ	i	1	÷	+	1	:	1		_	1		1	60	1	1	1	1	*	1
2 Meningitis, Gerebro-spi'l.	1	1	1	1	1		1	01	=	1	÷	+	1	:	1	+		01	į	7	1	į	1		i	-	1
A. Moningitis, Spinal	1	1	1	*	-	1	1	*	i	1	÷	+	1	. 1	1		22	-	1	10	1		63	1	-	18	1
M. Manualela						Ī				-		-	7.3	_		-		_			1	1		1			

		1	1	1	7	1	1	1	-	-	1	1	1	1	1	i	1	1	1		ŧ	1	1	1	1	1		
	ofof.	1		1	1	!	_		- 1	1	i	-	1	1	_	1	1	i	- 1	- 1	_	_	j		-	1	1	
1	gepened.	1	1	1	1	1		1		1	1	-	1	1		1	1	1	1	- d			- 1		i		1	
20	ORDER 2. Organs of Cir		н	13	1		_	13			1	**	-	-	90	1		88	13	*	20	14	27					
2	2. Perioarditis	1	- 8	60	:	İ		-		-	1	i	1	1	"	i	1	60	1	118	-	i	1	60	61	œ	-	_
	2. Anourism	1	1	1	1	1	1	1		i	1	1	1	1		-	1	1	. :		. 1		1	- }		_	1	1
	8. Heart Disease	-	*	63	1						1		_	-		į	1	25	21	1	10		12	0	2	-		
20	4. Emboli	i	1	1		1	1	i		1	1	1	1	1	1	1	1		1	1	1	i	1	1	20	1	-	
2	IIL-ORDER 3. Rospi'y Organs.	04		27	23	65				_	-			- 1		90	-	75	61		61				23			10
1	l. Epistaxis	i	12	1	1		1	ì		- 1	j	i	1	1	. 1	1	1	1	T.		4	- 1	-	1	1	1	1	_ i
8	2. Laryngitls	1	-7	;	1	1	1	į		i	1	1	į	1	1	1	1	1	T.		- 1	1	1		1	200		1
25 25 25 25 25 25 25 25 25 25 25 25 25 2	3. Bronchitis	1	- 1	-£	-	~	1	1		i	i		1	i	64	1	1	00	1	- ;	1	-	-	-		94	×	
1	4. Pleurisy	1	- 16	-	,	**	1	-	_	1	1	1	1	1	- 1	1	1	-	:	- 1	1		1	1	1	-		_
4	5. Pneumonia	-	1	50	15	65				-	-	0	1	1	20	-	1	24	=	•	18	42	11	19	-	83		•
	6. Asthma	1	*	4	17.	į	į	3		1	1	1	1	1	-		1	Ġ.	1		- 1	1	-	1	1			
	7. Lung Disease	1		01	H	60	1	-		1	1	10	1	-	01	-	1	7	7		*	00	*	-	30			-
4	8. Oatarrh	1	1	1	-1-		1	1		1	1	1	1	1	1	1	1	1	I.		1	1	1	1	1	_	G.	i
	III ORDER 4. Digestive Organs	4	60	20	9	01	-	83		- [-	œ	1	1	11	-	-	44	7	п	11	27	13	10	14	_		•
	1. Gastritis	1	24	-	•	64	1	20		1	-	ij	1	1	0)	1	1	н	- 2		91	C4	1	- 1	01	CI		
	2. Entoritis	24	F	7	9	CS.	1	13		1	1	*	i	1	10	-	1	55	G#	4	04	22	C.	90	-	10		
	3. Peritonitis	I	4			I	_	2	-	ij	i	1	1	1	1	1	1	*	- 1		п	1	1	. 1	1	7	63	
	4. Ascites	1	-	:	,	1	_	:		1	1	1	i	1	11	1	1	1				1	1	- 1	-	7.2	-	1
	5. Ulceration of Intestines	1	-	- (_	i	1		į	-	1	1	1	1	1	1	:	342		-36	:	1	-1	- 1	1	Ť	i
	6, Hernia	1	•		1	7	1	1		i	į	1	1	1	-	1	-	-	*1		- 1	-	-	7	01	-	7	i
1	7. Obstruction of Bowels	1		1		1	_	1		1	1	1	1	1	ľ	1	1	-	× .		· Y	1	1	4	-	:	1	
	8. Intustaception	1		1	•	1	1	1	•	i	1	1	i	1	1	1	1	i		-	£		1		1	1	1	i

TAHIR XVI.—Course of Death, Classified.

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Wayne.	1	1	11		-	00	0		00	1	24	1	1	6	*	-	-	0.	
Washtenaw.		1	-	1	60	1	64	- [61	i	10	8	i	-	~	1	-	-	_
Van Buren.	1	i	99	Ì	-	1	7	-	21	Ì	*	1	4		Ģ1	1	1	1	_
Tuscola.	1	ī	84	1	1	1	4	1	-	İ	-	Ī	ī	-	1	1	1	1	
St. Joseph.	i	i	64	1	i	*	*	i	1	1	*	-	1	7	i	1	i	21	_
Matto as	I	1	64	1	*	-	01	1	43	1	4	1	1	-	-	-	4	09	
Shlawassee.	1	Ī	24	ì	1	-	20	1	1	i	. 10	1	1	90	1	-	1	-	
Schooleraft.	1	1	1	1	1	-	1	i	-	1	1	i	Ì	1	1	1	1	1	
Saultae.	1	-	61	1	1	04	-	1	-	1	•6	1	1	-	1	1	1	4	_
.wentge8	1	1	04	-	1	104	90	1		Ī	20	-	1	7	1	T	Ī	00	
Roscommon.	1	1	-	1	1	1	****	1	į	1	- 1	1	1	100	1	i	Ť	1	_
Prosque Isle.	i	1	7	1	1	Ĭ	1	:	1	i	1		1	1	1				_
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Oncola.	*	1	3	1	1	1	7	Į.	i	1	1	i	100	T.	1	3	1	i	
shrenda.	***	1	90	1	1	-	i	1	100	I		100	1	1	1	I	i	1	Ī
(Ashantan).	4	1	1	1	1	i i	i	i	Ē	-	1	4	1	i	1	1	i	1	Ī
Openion.	2000	1																	_
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Seetsel	****	1400	*	i	1	100	26	1	1	70.00	100		ż	-	29	1	-	8	
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Sunkopini.	1	2000	200	1	4554	2000	•	1	8	1115	*	1	ì	*	1	1	1	1	
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Josephie			•	9	1	3	-	-	-	÷.						3	1	140	

Months.				3	1000	36	4		_	4.4			_			ż	1	1000
And Sund							*		_		_	-						
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A.9 M,	(14,44,4)			71.7.				4	***	÷	, , , , , ,			All Colum		14,146		2
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WASHER OF TRAIN			. Mississis .	· Venner.	I, Mayor	A double	B, 1 1	#. Ry	*	//#		****	10.4.10.	Herkin .	10141/1616	linge with a tracks wi	· y = [] •	7. Kidinay Disenses
3 3	: 3	-	*	•	*	*	8	*	=	1	`	-	,	-	-	*	Ë	. X

111. ORDER 6. Gon'yn Organs.

Ovarian Disease	1	-	-	:	-		Ī	Ī	1	i	i	-		1	-	1	1	1	-	1	1	1	1	1	!	1	
Ovarian Tumor	1	1	-	- 1	1	-	1	64	1	i	1	1	+	+	+	- 1	1	- 1	1	-	_	-	-	- !	_	-	-
2. Diseases of Uterns	1	1		i	1	1	1	1	1	1	1	1	1	1	+	1	+	1	1	-	1	-		1	1	_	-
3. Hydrocele	1	1	i		-	1	1	-	1	1	-	1	-	1	1	1	+	1	1	-	-	1	1	1	1	1	1
III ORDER 7. Organs of Loco.	1	1		- 1	1	1	-	1	1	i	1	1	-	+	+	- 1	-	+	- 1	-	1	1	-	- !			01
I. Arthritis	i	1	1	-	-	1	1	1	1	i	i	1	1	1	1	- 1	1	1	1	+	1	1	1	- !	1	-	1
2. Joint Diseases	1	1		1	1	1	-	1	T	i	1	÷	1	+	÷	1	1	1	1	1	+	+	+	4	1		01
IIIORDER 8. Integu'ry System.	1	1	C.I	-	-	-	1	.04	1	i	1	-	ı	-	1	- 1	1	90	69	-	-	61	-	-		~	10
1. Phlegmon	i	1		1	:	-	1	1	1	i	1	-	1	1	1	1	1	-	-	-	-	-	- !	1	1	-	61
2 Ulcer	1	:	1	1	-1	1	1	1	1	1	i	1	1	+	1	- 1	:	01	- 1	-	1	- 1	4	-	- !		-
3. Skin Discases	1	1	04	-	1	1	1	01	1	İ	1	1	1	-	1	1	- 1	10	-	4	1	-		-	-	-	-
CLASS IVDEVLOPMENTAL DIS'S.	=	-	48	23	-	64	4	46	36	01	63	16	1	90	43	00	-	20	83	-	7	63	25	39 27	7	580	8
IVORDER 1, Dev. Dis. of Chil.	90	-	25	90	-	7	-	17	13	-	-	9	1	-	10	ci	F	93	91	-	- 61	6	61	-	-	125	60
I. Still-born	00	-	20	00	-	90	-	14	11	-	-	0	1	-	16	61	1	65	21	-1	03		1 2	18	1	6	- 5
(Infantile	1	i	1	1	1	i	- 1	01	1	1	1	1	1	1	1	- 1		-	- 1	1	-	-	40	GY.	_	_	
Premature Birth	1	* *	•	1		1	1	-	1	1	i	1	1	+	1	- 1		7	-1	- 1	-	00	1	1		_	
3. Cyanosis	!	1	1	1	1	1	1	1	1	1	İ	1	1	1	1	1	1	- 1	1	- !	-	1	-!	4	1	_	-
4. Spina Bifida	1	1	1	1	1	i	i	i	-	1	i	1	1	+	1	1	+	1	- :	-	- 1	- 1	1	1	1	1	1
5. Other Malformations	1	1	1	1	1	1	i	1	1	1	1	1	1	1	1	1	Y	01	:	- 1	1	1	- 1	- !	1	_	
6. Teething	1	-	1	1	- 1	9	1	1	-	1	1	-	1	1	98	:	:	7	- 1	- 2	-	01	-	-	1	64	25
7. Injury at Birth		1	1	-1	1	1	1	1	1	1	i	1	:	;	-	1	- 1	1	- 1	4	1	1	1	1	4		-
IV ORDER 2. Dev. Dis. of Women	-	1	G	10	- !	C.	-	4	49	-	1	10	1	1	64	1	-	=	-	-	*	10	*	4	**	64	60
, Dysmenorrhea	1	1	1	1	i	1	1	1	1	1	1	1	1	+	-1	1	+	1	- 1	<u> </u>	- !	4	1	-!	1	1	i
Turn of Life	1	1	1	1	1	1	1	1	1	1	1	01	-	;	1	1	1	1	1	- !	- !	1	- 1	-	1	1	1
Cohildbirth	1	1	0	00	1	64	1	*	-	-	1	00	1	1	94	-	-	-	*		7	6	76	63	_	55	-
2. Abortion	i	1	1	1	i	1	-	1	1	Ť	İ	1	1	1	- 1	1	+	1	1	1		1	- ;	1	1	1	1
Uterine Hemorrhage		-	1	1	1	1	-	1	-	i		-	-	-	-	- 1	- 1	-	-	-	-	-!	_	_	i	1	1

TABLE XVI.—Continued.—Causes of Death, Classified.

												ООД	COUNTIES1881	, B	83.											
CAUSES OF DEATH,—1881.	.basibin	Missaukee.	Monroe.	Montenim	Montmorency.	Muskegon.	.bualda0	Осевпв	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Ковсошшоп.	Saginaw.	Schoolcraft,	Shlawassee.	St. Clalr.	Bt. Joseph.	Tuecola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
IV ORDER 3. Dev. Dis. of Old P'10	04	1	=	51	1		50	9	1		01	1	01	139	1	1	30	1-	-	9 30	8	13	12	89	26	i
1. Old Age	C+	1	14	21	1		50	9	1	1.	04	1	gè.	19	H	1	30		-	9 30	6	13	12	98	82	
IV Onden 4. Dis. of Nutrition	-1	- 1	-	1	1		-	61	1	0.9	90	1	-1	10	Ť	- 1	-	-	-	1 10	60	-	- 1	4	3	;
1. Atrophy and Debility	1	1	-	i	P	-		69	1	01	20	1	1	to	Ť	1	=	1	:	1 10	80	-	1	4	7	į
CLASS VVIOLENT DEATHS	*	00	50	55	1	13	4 17	10	1	00	*	1	1	53	**	00	19	7.0	4	62	61	0	19	24	88	-
V ORDER 1. Accid't or Neglig'ce.	er.	-	13	13	1	9	-	6	-	-	00	1	1	11	*	CI	65	64	91	3 13	9	**	12	11	10	j
1. Fractures and Contusions	1	1	01	04	1	1	-	1	1	1	1	1	1	-	1		+	+	1	ga.		i	*	9	77	1
2. Wounds	-	1	1	-	1	-	1	-	-	1	-	1	1	100	1	:	Q4	1	1	1	1	-	-	1	9	1
3. Burns and Scalds	1	7	-	*	1	1		1	1	1	QI	1	1	*	÷	:	0	99	1	-	01	ŀ	;	1	60	1
4. Poison	1	1	-	00	1	1	-	1	-	1	1	1	i	Ť	Ť	-	-	01	1	-	01	ì	04	1	00	1
5. Drowning	-	-	-	10	1	===	-		ì	1	1	1	1	90	20	+	00	04	-		-	-	60	*	90	i
6. Suffocation	1	i	1	1	1	1	1	-	;	1	1	-	i	i	1	1		01	1	1	_	1	14	1	13	1
7, Otherwise	1	1	7	1	1	-		00	1	1	1	1	1	-	-	-	10	01	!	_	60	-	64	61	00	i
VOrden 2. In Battle	i	i	i	$\dot{\top}$	1	1	1	1		1		1	Ť	Ť	+	1	+		1	+		1	1	1	1	1
VOrden 3. Homicide	1		7	-	-	+				1		Tj.	i	10	1	1 -		1	+	1	1	į	1	1	1 0	
To mulder		1				:	_									•	-								14	1
VOuder 4. Suicide	Ti	i i	1	64		00			1	7		T	T		'n	1	01 -			-		24	1 1	01	20 11	-

2 Polson	4	****	i	=	04	ī	1	I	-	Ī	:	•	1	1	1	1	1	-	1		:	1	09	•	į
8. Drowning	-6	1	1		1		-	1	•	1			1	1		1	1	- 1	i	1	1	1		1	į
4. Hanging	1	1	1	-	1	:	1	1		-	1		1	1	1	1	1	1	1	1		- 1		1	į
5. Otherwise and not Specified.	1	1	1		-	1	1	1		1	1		1	1			1	63	-	1	04			24	-
V ORDER 5. Execution	1	1	1		1	- 1	1	1	1	1	1			1	- ;	i	1	1	1	1	1	1		1	i
1. Hanging	1	1	1	- 4 -	1	1	1	1	_	T	1		1	1	1	1	1	1	1	1	1	1	1 =	i	i
VORDER 6. Violent Deaths not Included above	10	61	7	-	*	00	7	_1		-	-		6		18	80	04	64	7	01	*	7	uo.	24	i
UNCLASSIFIED	Ci	1	04	-	1	-	543	1		1	-		1	1	04	64	- 1		1	1	04	- 1	Q1	10	64
1. Head Disease	- 1	1	1		1	- (1	1	,	i	1	- 1	-1		:	1	1	1	1	1	-1	-	24	63	}
2. Hemorrhago	- 1	1	1	= 6	1		04	1	-,-	1		н	- 1	1	-	-	1	1	1	-	1.	1	= (80	į
3. Inflammation	64	1	01	-	i	-	-	-		1	-		-	1	-	64	1	1	1	-	-	1	63	00	-
4. Otherwise	1	1	1	1141	i	:	1	1	*	i	1		1	1	140	-	1	-1	1	1	1	11	161	1	-
Oauses not Specified	19		64	2	67	08	22	51	9	60	11	10	61	10	98	8	10	12	40	10	60	18	18	108	•

TABLE XVII.—Continued.—Specified Causes of Death.

				2	MONTH	S	13	1881							1	I EARS.			_				A	200	AGES IN		4	PERIODS	DS	Ö	4	LEAKS.	.0	1132	201		
SEX.	January. February.	reornary.	April.	May.	June.	July	August.	September,	October.	November,	Десешрет.	Unknown.	1881	1880	1829	18781	72281	19291	1	GAUSES OF DEATH.	Under 5.	2 (0 10)	10 to 15.	15 to 20.	90 00 50	25 to 30.	30 to 35.	.00 00 05	40 10 45.	45 to 50,	.66 of 06	.08 of 65	.60 to 65,	62 10 20	70 to 75.	708 01 02	Unknown.
Females	1	1	1	-:		-	1	:	1	:	1	1		-					1 V	Abscess of Head	1				1 :	1 :	1		1		:	1	:	1		1	1
Males	1	1	-	:	1	- 1	- 1	- 1	1	:	:	-	1	01	-	_ i	- 3		1 4	Abscess of Hip	1	- !	_	-	- 1	- 1	- 1	- :	:	- 1	1	- 1	_		1	- 1	7
Females	1	1	-	- :	- 1	1	:	1	- 1	- 1	:	1	1	1	1	_	-	D1	-		1	+	- :	- 1	- ;	1	-:	- ;	- :	- }	;	_ ;	1	- 1	-1	:	:
Males	1	;	1	1	- 1	:	- 1	1	- 1	1	:	1	1	-	1	1	_	-	_	Abscess, Internal	1	- ;	- 1	÷	+	- 1	- 1	-:	:	- 0	1	j		:	:	- 1	:
Males	-		-	!	_1		.:	;			- 1	-	1	C.s	-		i	:	4	Absects of Kidneys.	- 1	-	:	1	- 1	- :	-	- 1	1	;	. ;	- 1	- (-1	1	- 1	-
Females	- :	1	1	1		- 1	- 1	:	-	-		- 1	21	1	70	-1	- 1	-		, , ,	- !	-	- :	4		-	-	-:		- 1	1	- 1		:	I	-	1
Males	:	-	- 1	-1	1	;	1	;	1	1	1	- 1	-	1		į	1	-1	٧.	Abscess of Knee	- 1	1	- ;	1	- 1	- 1	÷	- 1	- 1	-1	- 1	- 1	-	:	1	-	:
Males	- 1	1	-	;	-1	1	- (:	-1	;	. 1	- 0	-	1		1			4	Abscess of Leg.	1	-	-	_	-	- 1	4	- 1	- 1	- 3	- 1	- 1	1		;	1	
Females	:	- 1	1	- 3.	-1		- 1	:	- 1	- 1	1	÷	-	1	1	-	- !	1	-		1	+	:	3	:	- 1	- 1	-;	ż	- ;		-:	-1	. :	;	1	-1
Males	- 2	1	- ;	- }	- 1	1	- 1	-1	-	- 1	1	i	- 1	1	1	1	1	72	1 4	Abscess of Limb	1	-		- :	- 1	1	- 1	- 1		-	:	- 1	- ;	. 1	1	-	1
Males	:	1	:	-1	1	.:	- 1	-1	1	7	- ;	i	1	1	1	01	C.	1		Abscess, Lumbar	1	- 1	-	1	1	-	- 3	- 1	1	- }	1	1	- :	- 1	- 1	1	:
Males	- 1	1	1	- 1	- 1	;	:	-1	- 1	1	- 1	1	1	1	į	-	1	1	4	Abscess of Neck	1	1	1	÷	- 1	- 1	-1	- 1	. ;	1			-	:	1	- ;	-
Males	:	1	- 1	1	1	. :	1	-	1	1	1	1	-	1	1	1	. 1	1	_	Abscess, Pelvic	1	1	- ;	-:	- 1	- 1	+	_	1	1	1	:	- ;	:	. :	:	- 1
Females	- 1	1	1	- 1	- 1	;	1	:	- 1	-	1	i	1	1	į	1	1		-		- ;	- ;	1	-	- ;	- 1		1	1	- 1	;	1	1	Ų	- 4		:
Males	- 1	1	-	-	- ;	:	-1	-;	- ;	- 1	1	7	-	1	1	1	1		1 7	Abscess of Shoulder		-	- ;	-	4		- 1	1		7		-1	1	- ;	- 1	1	:
lotal	1	1	7	64	- 1	1	1	-	-:	-	-	1	9	Œ	•	-		9	V	Abscess in Side		-	-	1	- :	1		01	-	1	-	1	-	1	- 1	-	1
Males	1	- 1	1	04	- 1	1	1	- 1	1	-	1	1	03	10		1	_	-	00		1	1	- 1	- 5	:	-	- ;	:	-		-	;	-	:	:	- 1	-:
remales	1	1	-	1	1	- 1	1	-	1		-	:	23	20	01	3	01	-	-			-	- 1	7	-:	1		94	1	- 1	- 1	-1	1	:	- 4	1	:
fales	1	:	1	1	- 1		1	- 1	1	-	4	1	-	-	1	1	İ	- 1		Abscess of Spine	i	1	4	1	- :	- 1	1	-	-:	- 5		- 1		-		1	1
Pemales	1	+	:	1	1	1	1	- 6	- 1	1	1	-	1	- 1	1	1		-	-		-	:	- :	-	- 1	- 1	1	- :	-	- 1	- (- (.1	-	:	:	1
Potn!			1				7														_	1															

TABLE XVII.—Continued.—Specified Causes of Death.

				Z	MONT	CHS,	7	1881							YEARS.	18.						A	AGES IN PERIODS OF YEARS.—1881.	S	N	EB	110	DB	40	S	EAB	130	-18	8	
SEX.	.Vianual.	February.	March, April.	Mak	June.	Jaly.	August.	September.	October.	November.	December.	Unknown, 1	1881	1880	'6491	18781	.7781	1876.	CAUSES OF DEATH.	Under 5.	.01 of d	.ct of ot	15 to 20.	20 to 25.	.08 01 62	20 00 22	35 to 40.	40 to 45.	.05 oz 6b [50 to 55.	55 to 60.	60 to 65.	.07 o3 c8 70 to 75.	75 to 80.	SU and over.
Females	1	-		1 -	. :		1	1	1	-	00	1	J.	0	51	1-	9	1	Abortion		1 :		-	-	-	24	10	1	1	1			1 :	1	1
Males		1	+		- 1	- 1	- 1	1	- 1	7	- ;	i	:	-	1	1	-	1	Abscess of Abdomen	1	- 1	- 1	- 1	1	- 1	- :	- 1	- 1	1	i	Ť	1	1	-	
Females			+	-	. !	-)	- 1	1	- (- ;	1	i	Ì	1	1	-	1	:		1	- 1	- 1	1	- ;	- ;	- 1	;	- 1	:	:	÷	-	1	-:	- 1
Females	1		- :	-	1	;	- ;	:	- 1	1	1	İ	İ	Ī	1	-	1	;	Abscess of Arm	1	- 1	- 1	:	1	:	:	1	:	1	i	i	i	1	-	- 1
Females	:	1	1	1	- 1	1	- 1	1	-:	. ;	1	Ť	i	1	1	1	1	-	Abscess under Arm	4	- 1	- :	:	- ;	- }	- 1	- :	1	- 1	÷	÷	Ť	- :	- 1	- 1
Males	- 1	1	:	1	-1	-1	1	;	-	;	- 1	1	-	i	1	-	-	1	Abscess of Back	1	1	- 1	-:	- 1	- 1	-	1	. 1	Ť	1	÷	1	- 1	- 1	- ;
Females	- 1	i	1	- 1	- 1	1	.1	3	- ;	1	. :	1	i	1	-	-	1	1		1	- 1	- 1	-1	- ;	- :	-1	1	- 1	Ť	÷	i	1	1	- 1	1
Males		-	-	- ;	- :	- 1	-:	;	- 1	- 1	- 1	1	-	İ	T	T	- 1	1	Abscess back of Ear.	_	-	1	- ;	- 1	-:	:	1	;	1	1	1	+	- ;	1	- ;
Males	Ť	i	- 1	1	- ;	- }	;	-1	-1	- 1	1	1	1	i	1	1	-	-	Abscess of Bladder	1	- 1	1	+	- 1	1	:	- 1	1	i	i	+	+	+	-:	:
Total	Ť	i	:	- 1	-1	1	H	- ;	- 7	-	-	1	60	20	н	1	10	64	Abscess of Bowels.	1	- :	-	1	.:	- 1	-	-	1	1	-	÷	÷	+	1	- ;
Males	i	1	1	:	- 1	. 1	-		1	-	- 1	1	C.	91	-	1	1	01	, , ,	1	-	-	- 1	- 1	- 1	-	1	1	1	÷	1	-	- 1	- 1	- ;
Females	;	÷	1	:	- ;	- 1	- (1	1	- ;	-	1	-	-	1	1	7	-		4	:	- 1	1	4	1		i	÷	1	-	Ť	1	+	- 1	:
Total	- 1	-	-	-	- 1	- 1	- 1	i	-	~	-:	1	40	-	65	-	1	20	Abscess of Brain	-	-	-	ï	-	;	-	-	1	- 1	-	÷	1	1	1	:
Malos	1	1	-	-	- ;	- 1	1	1	- 1	-	-;	1	00	-	56	-	1	90	8 11	-	-	1	1	1	:	-	Ė	-	4	-		1	1	-1	:
Females	1	-	-:	-1	:	- 1	:	1	-	:	- 1	1	G.	1	-	1	i	1	* * *	1	1	-	- 1	-	ï	- 1	1	÷	i	÷	+	:	- 1		- 1
Males	i	1	1	:	- 1	- 1	-4	1	- 1	- 1	-	÷	i	i	1	-	1	1	Abscess of Ear	1	- 1	_!	1	3	- 1	1	÷	1	÷	1	+	1	1	:	:
Males	1	1	1	- 1	- 1	- 1	1	1	1	1	1	1	i	1	-	-	1	i	Abscess of Groin	1	. 1	1	1	:	- 1	- (÷	-	1		÷	- 1	:	1	
Females		1	1	1	1	- 1	1	1	:	- 1	- 1	Ť	i	i	1	Ī	1	7	n n n		1			:	- ;	i	Ť	- 7	-	1	_		;	-	- 1
Females	1	1	-	1	- 1	1	-:	1	- 1	;	-1	1	-	Î	1	i	1	-	Abscess of Hand		1	1	-4	:	1	1	i	÷	;	1	- 1	1	- ;	-:	- 1
Males	-	-		_:	- ;	- ;		-:								-	-	-	Abseess of Head	-					1							-	_	-	:

VITAL STATISTICS OF MICHIGAN, 1881.

TABLE XVII.—Continued.—Specified Causes of Death.

				7	MONT		18, 1	88	_•						Y KARS.	RS.				_		4	AGES IN	8		PERIODS	BI	ã	8	0.0	YEARS.	F E	eż 1	188	81.		
SEX.	January.	February.	March.	April.	May.	Mul	August,	September.	October,	Movember.	December.	Unknown,	,1881,	1880	.6781	.8781	.7781	1876.	CAUSES OF DEATH.	1 American	Under 5.	5 to 10.	10 to 15.	20 to 25.	25 to 50.	90 10 22	.01 01 05	.01 01 05	45 to 50.	50 to 55.	.00 00 00	.60 to 65,	.07 03 50	70 to 75.	75 to 80.	.1970 bna 08	Unknown,
Total	1 10	7	00	=	00	9	6	-	10	9	2	1	310	119	103	10	58	107	Apoplexy	- 6	1	:	1	90	-	-	61	9	-	2	7 7	130	17	13	=	-	-
Malos	00	10	9	10	9	-	9	*		63	00	. 1	69	02	9	48	99	61		- 1	1	-	- 1	01	_	69	-	-	-	01	60	7	Ξ	-	-	49	7
Females	01	-	01	9	01	9	50	10	00	-	9	1	4	49	43	43	65	46		+	1	+	-	-	04	01	-	01	_	8	*	9	9	9	-	04	- 1
Total	*	10	*	-	10	-	01	1	00	00	10	:	38	65	8	30	22	23	Asthma		01	1	- 1		_;	:	- 1	1	-		4	64		-	*	_	-
Males	-		-	=	60	-	01	-	-	-	01	4	17	63	61	16	16	-		+	+	+		- :	:	- !	-	- 1	_	1 2	-	- :	•	9	01	-	1
Females	80	50	80	;	01	-	- 1	- 1	O4	64	63	- ;	19	16	17	7	90	13		-	04	+	÷	-	-	<u> </u>	- 1	- ;		69	00	91	63	01	94		-
Males	- 1	- ;	- 1	1	1	-	-	1	- 1	:	;	- ;	1	i	1	-	i	1	Atrophy of Heart	1	+	1	+	÷	:	4	- ;	:	1	:	- 1	- ;	- 1	-1	-9	1	. 1
Total	_!	- 1	i	:	-	-	- 3	-1	- 1	-	- 1	- 1	63	. {	- {	00	1	1	Atrophy		63	1	1	1	- ;	1	+	- 1	-	:	- 1	- 1	:	- 1	- 1	- 1	- 1
Malos	- 1	- 1	1	i	-	100	-	- 6	- ;	- ;	:	1	-	- 1	1	01	1	1		,	-	-	- :	- :	- 1	1	:	-:	:	- ;	_;	:	- 1	- 1	- 1	:	- 1
Females	- 1	:	- 1	1	-	-	-:	- 1	-1	-	-:	.;	6	1	1	-	1	1	*		04	1	:	1	- 1	1	1	1	1	:	-1		:	:	- 1	:	- 1
Males	1	- 1	1	i	- 1	-	:	.;	1	- 1	:	1	1	-	i	1	1	1	Biliary Calculus	-:	1	:	:	1	1	1	1	- (4	- :	- 1	- 1	:	- 1	- j	- ;	- 1
Males	1	-	_	:	1	_	7	1	- 1	1	- 1	- 1	00	-	G)	1	*	1	Birth, Injury at	- 1	09	1	:	-	- 1	- 1	- 1	- 1	:	- 5	1	- 1	:	1	:	-1	1
Females	-	:	-	:	-	-:	1	1	1	- ;	- 1	- :	1	i	-	-	1	1		1	1	-	-			1	1	1	1	1	1	1	1	3	- :	1	1
Unknown	;		i	-	:		1		1	:	- }	:	1	1	1	-	1	i	, , , , , , , , , , , , , , , , , , ,	1	:	- 1	1	- (1	- 1	- 1	- 1	1	1	:	:	- :	1	- 1	- 1	- 1
Females	1	-	1	:	1	-	- ;	1	- 1	-1	:	- 1	-	1	1	-		1	Birth,-Instrumental Delivery	-	-	- ;	- 1	1	- 1	:	- :	1	- 1		:	1	1	:	- 1	1	- 4
Total	1	91	00	C1	90	60	60	-	10	10	9	1	7	43	19	20	41	34	Birth, Premature	7	=	- :	- :	1	19	1	:	1	1	:	- 1	1	- ;	- 1	- :	-;	1
Males	1	01	00	-	2	_	-	4	01	CF	01	2	100	17	22	19	20	17		-	77	1	:	-1	:	- 1	:	3		-:	- 1	1	-:	:	- 1	- 1	1
Females 1		1	1	-	G4	-	01	-)	60	50	60	12	18	23	ø	123	18	16		-	10	1		-	:	:	-1	:	. :	:		1	. 1		- 1	-1	Y
Unknown.	1,	1	1	:	1	- 1	1	- 1	1	-1	7	11	-	-	1	01	00	-			-	- ;		- ;	- 1	- 1	- 1			- 1	- 1	1	1	- ;	- 1	- 1	
Malos	:	1	1	1	1	ij	-1	1	1	:	:	- 1	1	1	01	-	1	1	Black Vomit	-1	-	_;	3	- 1	-:	-	- ;	:	- (-1	1	1	1	ı	:	- 1	1
Males	:				0				Ī		Ī	7	7		-					_		_					_	_	3						_	3	

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		;	i	1	Abscess in Threat.	1	1	:	:	1	:	:
		1	1			1	1	1	1	1	1	1
H H H 1 1 1 1 1 1 1 1	-	1	i	1	Abscess, Umbilical	1	1	1	1	1	:	1
22 25 25 25 25 25 25 25 25 25 25 25 25 2		1	1	1	Abscess of windpipe.	1	1	1	1	1	1	1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 13	27 20	13	22	6 Abscoss	-	1 1	- 1	01 H	1	1 1	-
1 2 1	10	14 3	=	1		2	1 1	:	1	1	-	1
	-	13	11 6	00		91	1	1	1 1 1	4	:	-
Males		-	1	1	Adenitis	i	1	1	1 1	1	:	1
Males 1 1	-	1	1	1	Albumenuria.	1	1	1	1	1	:	:
Males	-+	1	1	04	. Alcoholism	1	:	1	1	1	1	1
Males 1 1	H :	1	1	1	. Amputation of Arm	1	1	1	:	:	1	1
Males 1		1	-	i	Amputation of Feet.	:	1	-	:	4	1	1
Total 1 1	01	9		1	Amputation of Leg	1	1	-	1	1 .	1	:
Males 1	1	10	-	-		1	1	1	1	-	1	:
Females 1	ı	-	1	1		1	1	1	1	1	1	1
Males	1	01	Ì	1	Amputation	1	i.	1	1	1	1	1
Females	1	1	1	1		1	1	1	1	1		1
Males	t	1	i	1	Anemia	1	1	1	1	1	1	1
Femalos	:	-	1	**		1	1	-	1	1	1	1
Males	1	1	-	i (i	Ancurism of Aorta	1	1	1	1	1	1	1
Males 1 1	1	1	1	1	Aneurism of Heart.	***	:	1	1	1	1	1
Males	4		-	1	Aneurism.	1	1	1	1	1	1	:
Females	1	1	-	1		1	1	1	1	1	1	1
Males 1	-	1		4	Angina Pectoria	***	1	;	1	7	:	1
Malos	1	-	-	1	- Apoplexy, Cerebral	1	1	1	3	1	1	1

f Death.
Causes of
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WATINCED.
XVII.LC
TABLE

Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Comp			ž	M/re)	Š	Ē	-:					4	YEARS.	ş!		_				AG	AGES IN PERIODS OF TEARS.—1661.	E	P	×	Ě	6	H	3	ġ	9	Ę.	
2	· showing	40,000	17.0	MAN.	•							Y281		2288	-		CAURES OF DEATH.	Under 5.	.01 of d		15 to 20.	-	-	-			_	-				
Attrophy of Heart. Attrophy of Heart. Attrophy of Heart. B	14	* 1	*	*	:	7	~	4	2	15	9	8	9	-	_	_	poples y		_	_	-	1	-		-	_	_	_	_	-	_	-
Atrophy of Heart Atrophy (1987) Atrophy Calculus Atrophy Calculus By 19 10 10 11 11 11 11 11 11 11 11 11 11 11	*	*	*	•	,		-	45		4	0	.0	8	-	4	75	4	į	- 1	_	_				_		9		_	_	_	
2	- <u>-</u>	*	. . .	•	-	-	76	-	2		2	-	-9		-	10		- 1	:	- 3	-			_			-	+			_	
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TABLE XVII.—Continued.—Specified Causes of Death.

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TABLE XVII.—Continued.—Specified Causes of Death.

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XVII.—CC
TABLE

				Ñ,	KTE	Lo ntiis, 1851.	881							YE	YEARS.							ΦØ	AGES IN		S S S	PERIODS OF	80		YEARS	10 10 10	1881.			
o F Francet	February.	March.	May.	June,		Yn&net.	September.	October.	November.	December.	Unknown.	1881.	1860.	.6781	*8781	.7781	.9781	CAI	CAUSES OF DEATH.	Under 5.	2 to 10.	.čl o1 01	15 to 20.	20 to 25.	25 to 30.	.04 of 68	40 to 45.	.06 01 61	50 to 55.	.60 to 65.	.07 ot 58	70 to 75.	.10 to bna 08	Unknown.
Total.	-	*		77	04	11.70			- 5	- 21		2	-8	5	87	8	21		Croup, Membranous.	.	=======================================	64		<u>:</u>	$\frac{\cdot}{\cdot}$	-	\equiv	$\dot{=}$	-:	三	:	$\frac{\cdot}{\cdot}$	-	- -
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Total 4 12	9 14	45 104	154	79 84	112	13	180	296	212 161	1 269	685 6	Diarrhen	433	9	00	-	-	;	00	Oł.	1 1	4	6 5	9	10
Males 2 7	1 1	29 69	8	48 21	20	*	275	1771	120 81	1 140	159		251	*	1	-	1	1	61	-	-	60	1 2	00	10
Females 2 5	C+	16 45	69	36 13	7	9	202	119	95 8	80 128	8 128	•	182	64	01	1	-	i	-	н	1	-	*	00	00
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Total 149 98 112 133 126		125 155	162	235 316	230 215	115 7	2063	1542 1473	73 887	7 593	3 211	Diphtheria	831	712	337	103 30	11 0	00	80	91	10	64	-	- 1	55
Males 79 42 52 7	78 60	77 69	64	130 170	108	98	1030	744 7	711 896	6 538	9 154	*	448	333	163	4	13 6	+	.04		70	04	-	:	*
Females 70 56 60 1	25 66	56 78	95	105 146	146 122 1	117	4 1030	798 7	762 491	1 294	157		383	374	174	59 17	7	ţ=	1 2	-	1	1	1	J	1
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Males	;	-	1	1	1	1	1	-	1		1	Dropsy of Abdomen	1	1	1	+	4	:	4	1	-	. 1	1	1	
Females	:	1	1	:	i	1	1	G+		ì	C+		1	1	1	+	1	1	1	112		1	- 1	;	1.7
Males	1	1	ì	1		1	1	60	1		04	2 Dropsy of Bowels	1	1	1	1	:	- 1	1	1		1	1	1	1
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XVII.—(
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TABLE XVII
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Моитив, 1861.		YEARS.	و. ا	1		AGES IN	PERIODS	DS OF YEARS.	IRB.—1891.	ļ
October. December. Unknown. Unknown.	1890.	.8781	.7781	.9781	CAUSES OF DEATH.	Under 8. 5 to 10. 10 to 15. 15 to 20. 20 to 25.	25 to 85. 80 to 85. 35 to 40.	40 to 45. 45 to 50. 50 to 55.	65 to 70. 65 to 70. 70 to 75. 70 to 80.	80 and over.
1 2 8 54	ಪ	37 47	2	89	Dropsy of Brain	45 8 1 : -	- : :		1 :	1 :
3 2 3 31	- 75	21 24	- 52	=	"	27 2 1	_ <u>:</u>			
1 23	2	16	 	31		18 1				
1 6	80	- 6	2	1	Dropsy of Chest.	2 1	:			
1	64	**	- <u>-</u> -	*	, ,		:		: :	_ <u>:</u>
:	8	••	8	63			:	:		
	Ī	-			Dropsy, General		:		:	
		_		_	***	:	:	:	1	
12 14 7 1 100	8	84 75	25	2	Dropsy of Heart	4 6 5 3 4		4 5 11	2	
5 8 1 1 42	33	38	23	83		1 2 1 1 8		2 1 5	•0	
7 6 6 58	8	46 34	- 프	2		3 4 4 2 1	1 6 2	7 6	4 5	
:		<u>:</u>	_	_	Dropsy of Kldneys.		- : - : :	- i	:	
:	<u> </u>	_	<u>.</u>		:	:	: :	-:	: : :	
	-	-	<u> </u>		Dropsy of Limbs	:	:	- <u>;</u>	<u>:</u>	<u>:</u>
:	Ī	-	<u>:</u>		Dropsy of Liver		:	:		:
1		+	<u>٠</u>	-	***		:			:
: : : :	_	<u>:</u>	<u> </u>	-	Dropsy, Scarlatinal		:	<u>:</u> :		:
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	<u> </u>	<u> </u>		<u>:</u>	Dropsy of Spine		: : :	:	- <u>;</u>	
:	İ	<u>:</u>	64	<u> </u>		:	:	; ; ;	<u>:</u> :	:
		-]	Dropsy of Stomach.		_; _;	_: _: _:	 :	_; _;

Females	Dropsy, Uterine		1 1
Total 16 17 26 25 29 19 28 30 21 32 20 19 282 271 260 249 224	226 Dropsy (Unspecified)	20 8 1 4 10 6 7 10 12 12 12 19 37 29	39 29 21 6
Males 8 9/14/11/16 8/12/16/8/14/8/11 135 129 108 114 98	101	8 71 1 1 2 2 - 4 5 9 7 4 15 15	90 17 13
Females 8 8 12 14 13 11 16 14 13 18 12 8 147 142 152 135 126	125 "	11 1 8 8 4 7 6 7 3 5 15 22 14	19 19 8
Total 2 3 1 5 2 3 1 17 36 17 25 16	30 Drowning, Accidental	1 1 8 4 8 1 2 1	
Males 2 3 1 5 1 3 1 16 30 17 17 15	54	113 4 8 111	1 4
Females 1 1 6 8 1			1 1
Total 11 10 8 27 12 19 8 5 7 1 108 143 105 92 87	142 Drowning	10 12 18 9 13 15 8 2 8 2 2	21
Males 9 10 8 25 11 13 8 5 1 95 118 94 83 77	124 **	7 10 17 7 13 14 7 1 8 2 9	01 1
Females	18	3 2 1 2 - 1 1 1	1
Males 8 1 1 2	Dysentery, Chronic		:
Females			1 1
Total 3 2 2 4 9 31 91 82 32 4 10 270 155 133 157 216	195 Dysentery	202 10 2 1 1 1 2 1 8 1 4 4 6 10	4 9 7
Maios 1 1 1 8 6 20 47 36 17 3 5 140 84 66 84 106	106	110 5 2 1 2 2 3 2	1 1 4
Females 2 1 1 1 1 3 11 44 46 15 1 5 150 71 67 73 110	: 68	92 6 1 1 1 1 1 1 1 2 1 4	90
Total 3 1 2 1 2 3 1 1 2 1 4 21 13 20 14 9	15 Dyspepsia		2 2 1 1
Males 2 1 2 1 1 1 2 10 10 13 8 7	10		1
Females 1 2 3 1 1 2 11 3 7 6 2	:		2 1 1 1
Males	Earnche		1
Females 1 1 1	Ear, Ulceration of		1
Malos	1 Eating Dried Apples		7 7
Malos	Eczema.		1
			;
Females	Embolism of Brain		:
Total 2 1 1 4 1	Embolism, Cerebral		1
Males 1 1 1 1 1 1			1
gemales 2 1 3 1		T	1

TABLE XVII.—Continued.—Specified Gauses of Death.

				M	LNO	rii8	MONTHS, 1851.								×	EARS			-				¥	G KB	K	PE	AGES IN PERIODS OF YEARS.—1881	98 0	p.	EA	13	<u> </u>	31.		
SEX.	Yanuary.	March.	llrqA	May.	June.	Jajk.	August.	Beptember.	October.	November.	December.	Unknown,	1881	1880	1829.	1878.	.7784	18281	1 1000	CAUSES OF DEATH.	Under 5.	01 01 g	10 to 15.	15 to 20,	20 to 25.	25 to 30. 80 to 35.	35 to 40.	40 to 45.	45 to 50.	.00 to 55.	.08 os &&	60 to 65.	.07 of 50 70 to 75.	75 to 80.	So and over.
Males	1	1	-	- 1		- 1	- 1	_ i		- 8	1		- 1	-			-	-	0	Chlorine			-:	- ;	7	1	- 1	-	- 1	- 1	- 1	_	- 1	- :	÷
Males	-	3	- 1	1		- :	- 1	1	-	1	-	-	1	1	1	4	.4	7	0	Chloroform			- ;	- 3	+	- 1	1	-;	- 1	- :	- 1		÷	-1	- 1
Femules	- 1	1	-1	1	-	- 1	- ;	1		i	1	1	1	1	1	-	-	-	1		_		- 1	- 1	4	÷		1	1	1	2		-	-:	
Females	:	1			_		1			i	-	- 1	1	1	- 1		-	- 1	0	Chlorosis				- 1	+	-	-	- 1	1	-;	+		- 1	- 7	
Total	1	76	1	-			-	_	-	1	-	+		10	22	01	7	ci	4 0	Choking	10	-	-1	- 1	1			1	1	- 1	(1	-:	.;
Males		- 5		1			-	-		- 1	-	-		91	1	-	*	-	64		01	_	1	1	11	- (-	1	4	- :	- 4		1	- (:
Females	1					1	1		_	1	1	- 1		00	CI	24	1	-	01		•	:	1	1	1	- 1	-	1	-	1	*		;	- :	- 1
Total	(~	15) 16	40	177	7 274	1 213	2 70	0 51		13	2 837	7 499	300		243 3	370 3	331 C	Cholera Infantum.	833	7	-	1	1	:	-	1	- 1	:	- >	-	1	-!	.;
Males	G4	ci	12	4	53	3	2 140	123	25	10	0	-	462	2 286	4.1	173 19	52	202	621	2	440		-	÷	,	;	,	-	1	- 1	= 4		1	- :	:
Females	*0	27	56	72	17	82	51 153	88	36	8 11		9 3	102	112		136	110	165	152		383	- 1	- 1	i		- 1		1		<u>:</u>			1	- 1	- 1
Unknown.	1	4	-			- 1	1	00	-	- !	* *	1	_	7	01	D4	C1	:	1		20		-1	i	- 1	i		- 1	- ;	4			1	- 1	-
Total	-	1	- 0		577	3 17	7 23		11	60	01	61	_	60	38	30	234	56	27 C	Cholera Morbus	8		-	_	-	024	*	04	90	7	93	PO	24	00	03
Males	1	:	- 1		-	-	12	=	9	00	-	64	_	01	95	91	65	11	12		65	-	- ;	- (1	- 57	20	-	91	9	01	01	D+	04	100
Females	1		1.61	4		01	2	1 6	1	_	7	1	-	20 1	21	7	01	20	61		14	95	-	_	-		-	01	-		н		1	- ;	3
Total	1	1	100		199		10	0	-	1		-		E-1	56	9	4	12	12 C	Choleraa	19		-	_!	;		-		-	-			- 1	- 1	- 1
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Females	1	-	-01	1	-93	20		02	-	-	1	1		1	-	:	1	40	9		8		-1	1	1	- 1	-	1	- 1	:	>		1	-	
Total	1		-		-	_	1	1	1	10.5	1	1		10		-	-01	-	8	Choren	1	-	-	1		1		- 1	-	-			1	- 1	
Males	:		-	:		_	1	-	1	-	1	+		-	61	-	-	-	04	,	i		12	1	*	- 1		-1	-	-	+	-	1	-:	1
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Malos			_		_	_			_	_	_		_													_							_		

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Females	,	1	1		3	_	1	1	1	7	1	2	3	i	1	i	_	1	Cold on Lungs	90	-	:	1	:	1	:	- 1	•	+	1	1		1	- 5
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Females	1	-	-	00	1	34	-	1	7	01	1	- !	H	-	0	10	-	-			2	1	1	-	- (-1	1	-	+	- 1	-1	1	1	- 1
Total	1	-	-1	-1	1	-	1	-	- 1	- 1	- 1	1	01	15	01	7	-	-	Colie, Billous		1	1	1	;	i	1		-	-	- (1	1	1	- 1
Males	1	1	-	- 1	1		- 1	"	1	i	1	1	7	4	64	60	-	-		1	1	1	1	1	1	1		1	-	11	1	1	1	- 1
· Females	1	-	1		1		- 1	1	1	i		- 1	-	01	1	4	10	277			1	:	- 1	-	İ	Y		-	1	1	1	+	+	1
Malcs	1	1	1	-	i		1	í	-	-	1	1	C+	1	1	1	-	i	Colic, Painters.	_	1	- 1	1	1	i	- ;	1	-	-	-	1	1	- 1	- 1
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Total	- 1	1	1	- 1	1	*	-	G.	-	1	1	,	*	*	-	-	64	i	Constipation	1	1	-	1	-	1	:	1	1	1	-	1	-	1	- ;
Males	i	1	1		1	-	-	69	1	1	1	8	20	1	1	-	-	1			İ	- 1	1	1	1	1	1	1	- ;	-	4	-	-	- 1
Fomales	1	- 1	1		1	1.0	_ 1	1	-	i	- 1	1	-	20	~	1	-	- 1		-	1	1	- 1	-	ì	1		-7	:	1	1	+	1	- ;
Total 115 133 164	115 1	33		206 180	0 146	129	158	155	164	163	198	1-	1921	1829	1680	1641	1664	1390	Consumption		120 2	27 35	195	291	251	171	151 128	103	86 80	81	73	62 44	_	18 33
Males	46	30	85	104 76	99 9	8	77	65	2	85	95	90	200	547	767	729	726	700			19	17 13	19	118	118	15	74 61	1	48 37	49	7	38	_	10 16
Females	3	23	82 10	102 104	98	91	8	93	93	S	103	*	6701	985	913	915	938	830			99	10 22	25	173	133	96	77 67	5	38 43	20	00 00	15	23	8 17
Females	1	1	1		1		:	1	-	1	1		1		1	i	-	10	Contusions	_	i	1	1	;	1	1	1	-	1	- 1	1	1		-1
Total	56	000	533	24 26	80	25	60	59	24	25	88		337	347	275	193	165	185	Convulsions.	-	297	19 7	1		C4	61		C1	-	-	-	-	-	20
Males	18	12	12	16 11	12	10	19	18	=	16	17	3	181	187	147	103	101	98		-	991	61	1	:	01	-	;	16	-	- !	H	1	-	04
Females	90	18	61	8 15	81 9	12	18	7	13	6	F	- 1	153	160	128	96	61	82			131	0	"	20	1	-		01	02	-	1	-	- 1	-
Males	1	1	1		1	- 1	-	1	1	1	- 1	. (-		-	9	-	90	14	Cough	1	1	- 1	1	1	i			-	4	1	1	1	1	- }
Females	1	-	:		1	16	1	- 1	1	1	1	210	1	-	Ī	-	04	;		-10	1	1	- [1	i	-	1	,	-	- 1	1	+	+	- 1
females	-	T	1	1	1		<u>i</u>	1	1	1	1	1	i	1		-		4	Corn on Foot	Ī	1	1	1	1	1	:	÷	- 1	+	1	-1	÷	1	:
		1	1:	Includ		13	es I "Asiatic."	흥		1	1	-	Inol	Includes 1 "Hepatic Colic."	13	l g	100	음		Includes 2 Teething, and Nervous Fits,	1 2 T	eet.	log	a D	N N	140	18 F.	1.1		l			1	1

TABLE XVII.—Continued.—Specified Causes of Death.

									Ä	TADLA	4		11 4 4		-CONTINUED.	777	9		-ppecified Causes	Causes of		Death	ان					-								1
				1	×	L XO	H.B.,	Моитня, 1881.	-						¥	YEARS	w i						AG	AGES IN PERIODS OF	×	PE	R101	90	O.F	X	YEARS.—1881.	1	88			
SEX.	.Tannal	February.	Матср.	April.	May.	June.	.Tin L	Yngner.	September.	October.	Мочетьет.	December.	Unknown.	.1881	1829.	.8781	.7781	.9781		CAUSES OF DEATH.	Under 5.	.01 o1 g	10 to 12.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	45 to 50.	50 to 55.	.08 of 68	.ch o1 08	65 to 70.	70 to 75.	75 to 80.	Unknown.
Total	6	7	7	-	*	61		:	-60	- 50	13	.6		<u>z</u>	65	45	87_1	-61	21 Croup, Me	Croup, Membranous.	\$	===	-8		<u> </u>		- :	$\frac{\cdot}{\cdot}$	<u></u>	_ :				\div	\div	
Males	٠.	က	က	60	_	61	-:	-	*	~	7	*	-;	88		18		2	:	:	2	60	6	:	:	:	-: -	:	<u>:</u>	<u>:</u>		÷	÷	\div	:	-:
Females		7	_	7	65	:	:		_	61	10	_	:	8	- 20	- 72	11	6		:	16	7	:	_	:			:	:	<u>:</u>	_:	- :	-: -	-:	:	
Males	:	:	-	:	- 1	_:	_	-:	:	;	-		.:	-			$\stackrel{\vdash}{+}$	<u>:</u>	Croup, Spasmodic	asmodic	_	:	:	1	:		- ; -	<u>:</u>	:	<u>:</u>	:	÷	\div	:	:	<u>:</u>
Females			:	:	:	:	:		:	-;	:	:	$\frac{\cdot}{\cdot}$	<u> </u>	<u> </u>	<u>:</u>	<u> </u>	+	:	:		:	:	:	:	Ī	\div	:	÷	<u>:</u>	:	÷	÷	÷	:	<u>:</u>
Total		31 36	36	18	16	6	7	88	35	57	\$	7	_	315	256	23.7	199	145 157	7 Croup	•	270	7	Q1	-	<u>:</u>	_:		- :	:	<u>:</u>		-:	÷		$\frac{\cdot}{\cdot}$	<u>~</u>
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Females	==		L	.	۳	+	*	12	Ξ	2	93	<u>e</u>	;	126	8	- 2	2	69	:		105	2	Ĉ1	:	-:	\equiv	-: -	:	:	_:_	:	÷	÷	 -	:	:
Males				_ :	- ;				:	:	:	:	<u>:</u>	<u>:</u> ;	- ;	<u> </u>		<u>:</u>	Crusta Lactea	par	-		:	:	:	:	÷	:	-:-		:	÷	÷	÷	:	<u>:</u>
Males					:	:		;	:	-:	_	-:	:		-	62	_	20	. Cyanosis.			- :	-	:	:		- ;-	:	÷	<u>.</u>	:	÷	÷		<u>:</u>	<u>:</u>
Females	· ·			:	:	:	_:	:	:	;	i	;	-	:	64	<u>:</u>	:	C1			-		:	:	:	Ė	:	:	:		:	÷	÷	<u>:</u>	:	:
Total				_	_	:	- 1	:	i	_	:	:	:	60	∞	-	-	-	Bebility, Nervons	Norrons		-	-	:	:	:	- : -	:	<u>:</u>	:	_	_	- -	- -	- ;-	<u>:</u>
Males			-	:	:	:	- :	-	:		:	;	:	_	Ç4	-64	٥.	-	:	:		;	:	:	:	<u> </u>	: -	<u>:</u>	<u>:</u>	:	:	_	÷	÷	 -	<u>:</u>
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Total	=	14 19	95	91	16	50	<u> </u>	22	22	=	21	6	:	222	148	- EE	138	150 155	5 Debility		91	-	:	65	61	:	- - -	67	5 6		Ξ	9	-2-	<u> </u>		<u>:</u>
Males	<i>3</i> .	-	-	22	9	2	=	2	13	က	6	2	:	151	-83	- %	<u>8</u>	83	:		99	_:	:	_	:	:	;	_	8	٥١	8		Ξ	- -	9	:
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Males			:		-	_6v_	_ ;	:	:	- ;	-;	_	;	+	•••	9	o c	_	;	:	:	:	-	:	:	:	6'	-	24	<u>:</u>	:	÷	÷	÷		<u>:</u>
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Males	-	1	1	-		4	-	1	1		1	-		C1	1	3 De	S Dementia, Paralytic.		1	+	1	÷	1	-	1	- 1	1	1	1	-1		
Females	i	i	2			-			1		1	1		1	1	-			. 5	- 1	1	1	1	1	1	1	. 1	+	i	1		;
Males	÷	1	7	-				11	1	1	+	-1		1	-	De	Dementia		1	1	1	i	+	1	1	- 1	1	1		:		;
Females .	1	1	1		-	- 1	-	- 6	-	-1	1	-			1				1	1	1	1	1	1	i	1	1	1			. 4	:
Males	1	1	1			1		-	.0	,	;	1		1	1	Dia	Diabetes Mellitus	1	1	1	1	Ť	÷	1	1	н.	- 1	1	-1	:		
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Males 2	01	7	1		ÇI	*		100		1-	100	53	36	81	200	15	*	-	-	1	-	24	04	80	01	69	T	01	6	64	0	63
Females 1	-		1		60			+	01	-	13	11	9	=	Di			1	1	-	94	1	01	-	1		. 1	-	Ġŧ.	G.	-	
Total	- 1	69	0.0	1		23	*	9	24	_	21	14	7	21	21	15 Du	Diarrhen, Chronic	30	:	-1	1	H	-	:	1	, H	01	-	ė.	00		:
Males	1		60	1		94	91	*	-		133	0	-	01	52	=		93	;	i	1	- 1	H	-1	1	-	0)	-	61	04	-70	:
Females	- 1		1	1		-	24	04	-		00	ю	62	64	100	70		10	- ;		:	-	-		i	:	-1	1	1	г		;
Unknown		1	7			1	1		1	4	-	1	1	7	-			÷	- 1	1	1	i	- 1	- 1	-1	- 1	-1	1	- 1	-1	- X.	:
Total	4 12	6	14	45	70	154	70.3	36	12	13	180 2	296 21	915 16	161 20	85 695	39 Dia	289 Diarrhen	433	9	63	-	-	H	-	00	01	-	*	9	9		;
Malos	04	1-	-	8	25	83	43	51	00	7	275 1	177 12	120 8	18	140 15	129	*	251	*	7	-	-	1	-	01		-	60	-	60	00	
Fomales	64	94	-	16	45	69	36	13	*	9	205 1	0 611	92 8	80	128	38		182	04	01	1	1	-	1	-	-	-	4	7	60	603	
Unknown.	1	1	1	1		1	1	1	- 1	- 1	1	1	}	1	-	01	:	H	1	3	4	1	1	- 1	- ;	7	. 1.	1	à.	Ĭ.	T.	
Total 149 98 112 133 126	98 112	133		125	25	65	235 31	316 23	230 215		2003 15	1542 1473	_	887 56	593 3	311 Di	Diphtheria	831	712	337	103	30	-	00	60	91	1	04	-	- 1		22
Males 79	79 42 52	18	9 60	63	1	64 13	130 17	170 108	86 80	00	1030 7	744 711		396 25	299 15	154		448	338	163	44	138	9	1	94	20	7	61	-	1	F.	®
Females 70 56 60	56 60	25	99 9	99	78	92	105 14	146 12	122 117	7 4 1030	_	798 76	762 49	491 95	12 16	157		383	874	174	29	17	10	40	-	64	-1	;	1	- 1	- 1	
Unknown.	1	1	1	į		90	1	1	1	1	20	- 1	1		1			1	4	1	1	-5-	1	- :	1	-1	Ţ,	1		- ;		•
Males	-	1	1	:	_	1	1	+	1	-4	-	н	ı		1	Die	Dissipation	+	1	1	1	i	1	- 1	i	-	1	1	7	- 1	- 6	
Males	-	1	1	1	_		1	:	1		7		1	1	*	Dr.	Dropsy of Abdomen	3	1	1	1	1	-	1	1	1	16		1	1	- 4	
Females	:	1	1	;	-	:	+	-			-	01	01	1	- T.A.	C4		i	1	1	i	i	÷	1	1	1	-3	,	4.		y	
Males	1	1	1	1		1	1	1	1	1	1	60	1	1	24	2 Dr	Dropsy of Bowels	1	1	1	1	Ť	1	1	;	*	1.		1.			
Females	+	-	1	1	-	-	+	÷	+	- 1	01	91	Ci	*	-	C1		1	1	1	9	1	-	1	i	-	1	,	ı, į		10.5	
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TABLE XVII.—Continued.—Specified Causes of Death.

			. •	ğ	MOM	н8,	, 18	1881.							YEARS.	E8.						4	AGES	60	X		Periods of	101	80			EAL	80	YEARS189	88		
SEX.	February.	March.	April.	May.	Jame.	July.	Jangay	September	October.	November.	December.	Unknown.	1881.	1880	.6781	.8781	1877.	1876.	CAUSES OF DEATH.	Under 5.		01 01 01	91 01 01	102 01 05	1 20 to 25,	1 25 to 30.	30 to 35.	1 35 to 40.	1 40 to 45.	1 45 to 50.	20 01 00 1	.05 to 60.	100 100 1	1 65 to 70.	1 70 10 75.	1 75 to 80.	80 and over
Total	++	60	9	6	4	9	*	G	*	61	60	:	24	3 5	37	47	63	62	Dropsy of Brain	~	2	00	-	7	1	:	:	-		1	-		04	-	-	:	÷
Males		04	*	10	91	2.3	01	-	93	21	00	1	50	16	5	8	97	00		G.	15	01	-	÷	÷	÷	. :	1	1	:	÷	-1	-	- 1	1	:	1
Females	H	01	64	4	61	60	04	45	-	- ;	:	- 1	22	10	16	23	98	23	17 17 11	-	18	-	-	·	1	i	-)	m	1	- (-	-	-	-	1	1	1
Potal	3	-	-	- 1	-	-	-	- ;	1	-	- ;	1	0	90	9	+	10	7	Dropsy of Chest.	-	C1	- :	:	-	1	i	1	1	4	1	-	-	1	H	1	-	+
Males	7	-	1	1	-	- ;:	4	4	1	-	- ;	1	*	04	99	-	10	**		1	04	1	1	-	-	- 1	- 1	i	1	i	1	+	-	. 1	÷	1	-1
Females	1	1	-	1	1	-	- 1	1.	1	- 1	1	1	C4	9	00	03	10	63	:	1	+	-	-÷	÷	÷	- 1	1	4	:	- 1	-:	-	-:	-		-	- 1
Males	3	1	- 3	1	12	. ;	1	1	1			T	1	1	H	Ť	1	1	Dropsy, General.	1	+	- 1	-	÷	÷	:	- 1		-1	-	- 1	1	÷		÷	:	1
Females	7	4	÷	- 1	- 1	-1	:		1	- 4	-	- 1	-	-	-	Ci	-	_		- 1	•	-	1	÷	- 1	1	1	1	. 1	- ;	i	:	-	1	-	1	- 1
Total	0	96	10	-	20	92	1-	-	23	Z	7	-	100	68	30	13	52	51	Dropsy of Heart.	-	-	9	10	00	*	2)	9	24	*	10	=	-	21	0	01	00	9
Males	*	50	10	.09	-	43	12.0	*	10	90	-	-	64	00	88	+	65	65			-	61	-	-	00	-	-	- 1	04	*	10	63	9	9	10	-	00
Females	7.1	50	- 62	-	51	30	N.	60	-	9	9	1	83	38	9	25	53	10		:	10	-	*	.01	-	-	10	21	.04	+	9	-	9	*	10	04	10
Males	ī	+	-	1	:	- :	1	:	- ;	:		1	7	- (1	- 1		-	Dropsy of Kidneys	1	-	7	i	-	1	1	-1	- 1	1	1	- 1	;	1	-1	÷	1	1
Females	:	-	-	- 1	- 1	-	1	:	-1	, i	:	1	-	i	-	-	1	1		-1	÷	1	1	+	1	1	1	- 1	-	-1	1	i	1	1	1	1	- 1
Males	1	-	-		-	Ţ		1	3	Ŕ	1	1	1	1	-	1	1	1	Dropsy of Limbs	1	1	4	1	1	1	1		- 1	1	- 1		2	-;	:	1	-1	- 1
Males	:	1	1	. 4	7	Ĭ.	-1	;	- 1	1	- 2	71	1	-	-	-	1	- 1	Dropsy of Liver.		- 1	i	1	1	T	1	À	1	1	- ;	-1	1	-;	1	1	- 1	- 7
Females	1	1	1	4	÷	i	- 1	- ;		- (-	Ξ.	1		1	1	64	i		1	1		1	- 1	-1	1	- 1	1	7	- 1	-	1	1	,	:	-1	- 1
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Females					1	3	1	1	-1	1					1	1	-1	i		1	. 7	=	4	1	- 1	1	14	1	4	- 1	1	1	1	- ;	- 1	- 1	1
Males					- 1	- 5	- \$	4	1	1			1		1	1	-		Dropsy of Spine	-1	1	-	:	Ė	1	- 1	t	1	- 1	-1	1	1	- 1	- 1	1	1	- ;
Females					· V	;	;	-	1	- 1			-		1	1	01	1		1	_	i	;	1	1	:	- ;	- 1		1	1	ï	-	1	:	:	
Dometon						_					_				I	ī						-								_				Ī		7	

Fomales	Ť	-:	3	1	-	1	1	÷	:	74.0	1	Ī	İ	1	7	ī	Dropsy, Uterine	İ	1	1	1	1	-	1	-	1	i	÷	1	1	1	
Total 16 17 26 25 29 19	161	7 26	13	20	9 28	30	22	61	20 159	- 1	282	112	260	249	155	556	226 Dropsy (Unspecified)	30	8	1 4	10	9	7	10 12	21	91	61	37	29 89	83	21	100
Males	00	9 14 11 16	=	_	8 12	9	00	#	= 8	^	135	129	108	F	86	101		0	-	7	01	61	1	4 0	6	-	-	10	15 20	17	13	+
Females	300	8 12 14		13 11	1 16	=	13	8	80	"	147	142	152	135	126	125		=	-	00	90	*	1	6 7	60	10	2	87	14 19	22	90	01
Total	- 3	_	04	63	10	64	00	1	0.	9.	17	36	11	12	16	30	30 Drowning, Accidental	-	-	99	00	- 0	-	69	1	1	:	1	- 1	1	- ;	=
Malos,	-:	140	64	90	1 2	-	20	31	-	-0	16	30	17	17	15	24		-	-	4	80	- 1	7	-	-	4	i	÷	1	:	1	-
Females	-0	- 1	- (1	+	7	- (k	- ;	-7	-	9	-	00	п	9		1	- 1	3	;	1	1	-	1	1	1	1	*	1	- 1	-
Total	1		=	01	20	21	2	00	2	-	108	143	103	65	87	142	142 Drowning	101	15 18	6	13	27	00	00	01	н	1	01	+	-	-1	21
Males	G		G	10	83	1119	23	90	5	-	92	118	91	83	4	124		7	10 17	7 7	22	=	1+	1 20	67	-	1	24	1	~	+	91
Females	1	- 1	21	- ;	64	-	9	1	01		133	83	=	6	10	18		60	61	01	1	-	-	1	- 1	1		i	1	- 1	- 1	01
Males	1	- 31	1	1	1		- 1	1	1	- 0	ij	00	-	H	01	1	Dysontery, Chronic	1	1	1	4	- 1	1	- 1	- 1	-1	1	1	- 1	:	_1	
Females	:	- (1	:	- :	1	- ;	1	1	- 1	1	O.	-	1	60	1		i	+	:	1	-	-	1	:	;	i	·	÷	- 1	- ;	_g
Total	60	69	- }	7	0	=	8	21	01		920	155	133	157	216	195	195 Dysentery	202	10	-	1	-	C1	1 00	-	7	**	9	01	00	7	61
Males	-	-	- 1	90	6 20	17	36	13	10		140	TS.	99	8	106	106		110	10	01	- 1	1	-	04	-	01	60	21	- 9	-	-	-
Females	Ġ\$		्र	-	20	2	91	13	10	- 1	130	71	67	23	110	80	:	66	10	-	-	-	-	-	-	41	-	**	4 3	00	10	er.
Total	63	н	1	69	10	-	CI	1	4		53	133	50	14	6	2	Dyspepsia	1	:	-1	d	CH	-	1	1	1	*	9	01		-	- 3
Males	63	O.F	1	1	1	-	-	1	61		10	10	13	30	-	10		1	1	1	1	. 1	1	-	1	1	75	4	-	- 1	- 1	- 16
Females	-		H	61	63	1	-	п	01	-0.0	=	63	-	9	64	10		i	1		1	01	-	-	-	1	1	C1	01	-	-	
Males	- ;		-1	-	W.	1	-1	1	4	-4	1	-	1	1	Ť	1	Enrache	i	- :	1	-1	i	-1	1	-1	- 1	i	÷	1	1	- 1	- 1
Females	1)	1	1	1		1	1	1	1	1	-	1	1	1	1	Ear, Ulceration of	i	1	1	1	1	1	1	1	1	1	+	1	1	1	1
Males	1	- 1	3	1	1	-	1	1	4	1	1	1	İ	İ	1	1	Eating Dried Apples	1	1	1	4	1	1	1	1	1	1	+	1	- 1	- (
Males	1		t	1	1	1	- }	1	1	1	1	e.	1	1	1	1	Eczema	1	12	1	4	-	1	1	-0	1	1	1	+	- 1	-1	
Females		1	1	:	-	1	-3	H.	1	1	į	1	İ	1	7	1		1	1	1	1	1	1	1	1	:	:	;	1	1	:	:
Females	1	2	-}	1	1	1	1	1	1	1.5	1	1	i	1	-	1	Embolism of Brain	1	1	1	:	•	1	+	1	1	÷	+	1	:	- 1	
fotal	1	63	1	÷	:	1	-	1	1	:	*	1	-	1	i	1	Embolism, Cerebral	Ť	1	1	-1	1	1	-	7	- 1	-	+	-	1	4	
Males	1	•	t	;	-	1		1	4	:	-	1	İ	İ	1	1	=	i	1	1	1	-	1	-	1	;	i	+		- 1	- 1	:
females	1	G 4	1	1	+	4	-	;	+	-	00	1	-	i	İ	1		İ	1	1	1	1	1	-1	-	1	- 1	1	1	- 1	- 1	:
									1	1																		-		.	i	

TABLE XVII.—Continued.—Specified Causes of Death.

				Ř	MONT	H8,	нв, 1881.	81.				_			YEARS.	RS.					•	AG.	8	H	AGES IN PERIODS OF YEARS.—1881.	ER1	Õ	8	#C	X	Ž	ų Va	<u> </u>	æ		
SEX.	January.	February.	March.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1881	1880.	.6781	.878I	72281	,078I	CAUSES OF DEATH.	Under b.	01 01 9	10 to 15.	1 12 to 30.	20 to 25.	95 to 30.	1 80 to 35.	35 to 40.	40 to 45.	45 to 50.	.65 to 60.	.00 to 65.	1 65 to 70.	70 10 70	75 to 80.	. 19 vo bra 08	Unknown.
Females	700		Y-	= 1		- 1	-1	:	1		-	- 1	i	1	1		i	61	Embolism	- [-1	- 1	-1	1	-	i	-	i	-	÷	-	- 1	- :	- :	-	- 1
Males	ř	:	- 1	4		1	- 1	1	-	÷	1		-	1	1	-	1	1	Emphysema	-	1	:	:	- 1	-	1	1	1		-	:	- 1	- ;	- 1	-	- 1
Females	1	4	=1	1		1		1	-	-	-	1	1	1	1	1	-	1		1	- 1	4	1		-	-	1	i		1	- 1	- ;	- 1	:	- 1	- 1
Females	1	;	- 2	- 1	1	1	i	1	÷	-	+	+	i	1	н	1	1	1	Endocarditis, Rheumatic	-	-1	1	- 1	1	÷	1	1	-1	i		+	+	_	-	+	-:
Males	;		- 0		:	1	- ;	1	÷	- 1	- 1	- 1	1	-	-	1	1	1	Endocarditis	1	-:	- 1	1		-	i	11	1	-	- 1	4	- 1	_	- 1	-	- :
Total	4	12	10	4	10	4	00	6	00	10	10	- ;	63	=	4	20	35	22	Epilepsy	9	60	4	10	90	-	90	6	70	10	03	-	91	_	61	- 1	-
Males	4	01	60	**	10	01	-	7	65	60	10	-	4	13	21	16	18	7	,	*	H	-	00	4	00	9	9	60	20	01	-	-	_	-	- 1	- :
Females		-	- 0	1	4	04	4	10	10	Q1	1	:	21	8	21	15	17	17	и	01	04	1	63	*	-	O1	00	1	G4	-	-	-	_	-	1	- 1
Males	1			1	- 1	- 3	- ;	-	:	:	- :	- 1	i	- 1	i	1	-	1	Eruption on Back	. 1	- 1	;	-1	:	1		-	-	-÷	1	÷	-	+	- 1	- 1	-
Males	, X	1		- 4	2	- 7	:		:		- 1	-	1	1	-	-	1	1	Erysipelas, Bone	-	- ;	- 1	i	-	-	-	1	1	÷	1	- ;	+	+	-:	- 1	-:
Males	7	:	3	-1	-1	- 7	-	1	+	÷	-	1	i	-	1	-	1	1	Erysipelas of Bowels	1	- 1	- 1	1	1	-	-	i	÷	1	+	- 1	÷	- ;	- 1	1	
Total	1	-	9	1	-	1	-	- 4	-	-	:	-	24	-	1	1	1	1	Erysipelas of Head	-	1	1	1	1	1	=	Ť	-	;	1	÷	+	+	- 1	-	
Males	-1	3	1		-	1	1	1	-:	÷	+	1	-	-	1	1	1	ı	и и и	-	:	- ;	1	1	1	=	Ť	1	1	1	1	+	+	- 1	- ;	- 1
Females	Y	1	+	11	4	1	- ;	7	1	- 1	1	-	-	1	1	1	1	1		-	- 1	1	1	Ť	1	-	1	÷	÷	+	+		+	-	- 1	_
Males	01	Ť	1		1	1	1	1	1	-	:		01	-	1	-	1	1	Erysipelas, Phlegmonous	1	:	Ť	1	-	1	i	1	-	1	1	÷	÷		- ;	-	_
Males	- 1	-	-	1	14	1	- :	=	+	-	1		-	-	-	1	1	1	Erysipelas of Stomach	1	- 1	- 1	14	i	1	1	i	1	i	1	1	+	;	- 1	-	-1
Females	3	4	- 4	t.	1	+	1	- 6		-	:	1	i	+	1	1	1	1	Erysipelas of Throat	1	-	-	1	1	-	i	1	-	i	+	1	-	1	_	÷	-
Total	4	10	0 11	Ξ	9	10	2	-	4	00	00	-	55	8	16	75	88	86	Erysipelas	24	-	:	00	C4	1-	10	10	00	10	00	93	9	*	-	-	- 0
Males	70	4	10	9	•3	22	to	04	00	10	00	-	48	47	44	37	31	55		15	-	- 1	60	-	00	7	04	01	99	99	1	*	*	-	80	69
Females	H	-	9	ю	-	Ç3	64	C4	1-4	00	40	V	300	37	47	38	37	53		2	- ;	1	1	-	-	-	00	-	01	- 1	60	64	-	-	п	60
Total		_						-	-		-	_	G)	0	01	C				•	Г		_		-			1	-		-	-	-	_	-	_

Includes 4 "Worm Fits."	
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-Audes 2 "Putrid" and 2 "Black."	

Males	-	:	10	4	:	0	ì	0	_	-					_	* Exposure		:	1	:	-	:				:	:	:	:
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Males	19	64	02	-	-	- \$	- 1	C*		;	20 22		23	81		17 Falling Tree	1	01	64	4	64	61	-	OK.	-	1	1	:	- 1
Females	-1		2	16	- 1		1	1		1	1	1	00	1	_	, ,	1	1	7	1	+	1	1	1	1	Ì	1		;
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Males	d	77	1	04	0.0	9	7	7 5		100	52		18	18			12	9	Q1	w	-	90	91	+	1	-	;	- 1	-
Females	- 1	-	-	-	-	9	-	40		21	27	85	8 26	01			œ	-	15	1	01	01	1	04	1	*	60	-	- 1
Total	0.0	00	:	10	1	1	-	1		-	22	-2	*	_	-	1 Fover, Catarrhal	10	01	1	i	+		i	+	1	01	64	-	- :
Males	64	20	1	1	- 1	1	1	- :		-	-	-	61	-7	-		700	:	- 1	1	1	- 1	3	1	7	- 1	C+	-	- 1
Females	-	1	1	10	_1	1	÷	1	4	1	9		1 2	-			91	1	:	1	1	•	Ė	1	- 1	01	- 1	-1	- ;
Unknown	1	-1	1	11	- 1	i	1	2	1	1	1	1	-	1			1	1	-1	1	1		i	1	1	1	+	:	4
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Males	-	-	-	1	1	1	91	91	1	-	61	00	01	1	_		03	+	j.	-	-		;	-	1	1	-	- 1	- 1
Females	-	1	-	-	01	-	1	:	1	-	2			Çī			-	÷	-		01	1-	1	-	1	+	-	1	- 1
Males	1	t			1	1	-	1	Ť	1	4.	-1	đ	F		Fever, Hepatic	1	-	1		*	14	1	4	1	-	K	1	
Total	-	.04	00	7	00	0	7	61	64	4	45 32	46	47	23	36	Fevor, Intermittentb	11	01	6.0	01	91	-	C+	1	1	1	1.	01	- 1
Males	1	-	04	-	04	01	10	61	1	-	19 16	18	3	88			10	00	1	н	-	-	-	-	- ‡	1	:	1	
Females	1 20	-	-	90	1	==	61		04	6	26 16	83	53	64	98		7	-	00	н	6	22	-	10	-3	- 1	1	.04	1
Total	00	2	*	3 6	v	0	18	67	10	103	63	×	0	-	_	Fever, Malarial	81	-	00	9	0 5	10	F	10	20	ю	63	*	.01
and a		-	-	-							1			1				1		J									

TABLE XVII.—Continued.—Specified Causes of Death.

				M	MONTHS, 1881	TH	3, 1	881.				-		H	YEARS.	Ď.						AG	ES	AGES IN PERIODS OF	PEI	310	90	OF		YEARS	1	-1881		
SEX.	January.	(March.	April.	May	June.	July.	September	October.	November.	December.		Unknown, I	1881,	1879,	.8781	.7781		1876.	CAUSES OF DEATH.	Under 5.	5 to 10.	10 to 15.	1	.62 01 02]	.06 01 62	1 35 to 40.	.64 01 04	.06 of 64	. 50 to 55.	55 to 60.	60 10 65	1 65 to 75.	75 to 80.	.1970 bna 08
Females	01	4	21		00	-	6 1	1	14	-	100	;	22	138	9	70	90	63	Fever, Malarial	1	10	01	*	-	. 9		100	4	1	00	10	21	01	-
Females	1	- 1	4	- 1	Ť	7	-	-	-	-	i	-1		1	-1	-	1	1	Fever, Menstrual		:	-	-	1	1	- 1	-	1	- 1	- 1	1	1	- 1	- ;
Females	-	- 1	1	1	-	-	1	-	-	-	1	-	60	-	- 1	-	- 1	1	Fever, Milk.	1	1	1		1	Ci	+	+	-	:	:	-	+	1	- ;
Males	=		1	- 3	1		- 1	1	-	-	÷	7	eı	-	1	-	+	1	Fever, Mountain	1	i	1	-	-	i	-	+	-1		-	1	- 1	1	- 1
Total	1	- 4	:		1		- 1	- 1	1	-	-1	1	Çi	90	19	7	00	6	Fever, Nervous	1	1	+	1	-	1	- 1	- 1	- 1	- 1	;	:	-	1	- 1
Males	1	- 5	ij.	:	1	:	-	- ;	- 1	+	i	- :	H	ю	01	1	-:	9		1	i	1	-	1	1	-	1	1	- 1	1	1	-	1	- 1
Penniles	*	- 1	1	1	1	- 1	:	+	1	-	i	- 1	-	20	1		60	03	" "	1	Î	1	1	-	1	-	1	1	- 1	1	:	+	1	1
Male	1	_	43	-	01	1		01	-	-	i	:	0	13	4	0	9	133	Fever, Remittent.	10	Н	-	1	1	1	-	-	1	1	1	1	1	- 1	-3
Males	2	- 1	-	-	-	-	1	H	- 1	-	i	- ;	10	9	00	-	*	1-		*	1	-	-	1	1	1		1	- 1	- 1	- 1	- ;	- 1	1
Females	:	-	-	9		1	-	-	- 1	-	1	-	*	7	-	9	01	0		-	-	+	-	1	1	1	-	- 1	-:	1	1	÷	- ;	:
otal	-	-		20	-		Q#	-	1	-	2		10	6	*	9	*	1-	fever, theumatic	1	63	D1	1	-	:	-	-	-	-	1	-	1	- 1	- 1
Males	5	- 1	1	CI	-	1	Q4	-	-		- 1	-;	j.	60	00	01	Ġ#	00	H H	1	01	-	-:	H	1	-	;	+	-	4	-	+	- 1	- 1
Femules	-	-	3	-	3		-:	- 1	1	3	1	-	63	8	-	*	01	-	" "	i	-	-	-	1	1	-	÷	+	:	1	-	1	- 1	Ý
Total	13	=	Ξ	25	1	22	17.	13	71	10	00	1	138	12	11	63	73	73 F	Fever, Spinal	70	3	11	10	9	01	60	-	-	- 1	-	-	1	- 1	. ;
Males	00	22	9	2	12	101	01	n	7	10	69	:	27	33	54	23	13	200		40	10	1	Ċ.	01		01	-	-:	- (-	-	1	4	-3
Females	10	30	12	3	В	63	14	*	7	10	9	1	1:0	36	56	88	28	33	" "	25	œ	10	00	*	C4	-	-=	1	1	1	:	1	-	1
Total	-	- 7	43	- 1	-	-	20	7	-	:	-	1	6	-	-	-	+	1 1	Fever, Spotted	10	20	1	1	1	1	÷		-	-	3	1	+	:	1
Males	+	- 1	G.	ā	;	1		1	-		-		ю	-	-	1	01	-		*		1	- 1	1	1	i	1		_;	1		1	- :	- 1
Females	-	-:	- ;	:	-	5	1		-	-	1	-	7	1	- :	-	Ci.	1		-	04	-	1	1	1	+	_	-	-:	- 1	-	- :	_	:
Total	20 15 23 34 27 35	50	34	6		60	90 15	150	178 14	149	801	-	884 5	513 32	397 3	329 41	416	426 F	Fever, Typhold	88	19	73	150	133	101	23	37 31	11 26	6	26	20	17 13	-	1-
Males 13 9 14 21 14 23	13	114	10	11		ar ye	100	700	88	20	1	-	0 107	90% 10	1000		_	K		-	-	4	-	1		19				1	1		-	

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Females	1	1	1	1	1	1	1	1		OX.	80	1	1	:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-	1	1	1	1		÷	4	3	1	1.
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Males	3	1	1	- 1	1	;	1	1	;	1	- 1	ţ	7	-	Injured Limb.	- 1	1	1	1	1	11	- 4	Ť	1	- 1	1	1
Males	1	1	1	1	1	1	H	:	40	1	:	÷	-	-	Injury, Internal		1	1	-	:	1		. 4	~	. 1	1	- 2
solw 28	1	-	1	J.	1	:	1	1	-	1	1	1	-	1	Injury	- 1	1	1	1	1		95	-1	-	- 1	- 1	-1
Females	1	+	1	-1	1	-	1	4	1	1	:	1.	- 1	н		-	:	1	1	1	- 1	1.	ż	1	1	1	- ;
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Females	1	- 1	1	;	-	-	-1	1	200	9	60	99		9		-		1	-	1	1	-	÷	-1	:	1	1
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Females	1	-	:	1	- ;	:	1	- 1	1	7	- 1	00	4	-	7	- 1	- 1	1	1	-:	- 1	3	·	1	1	- 1	-1
Total	9	01	40	-	10	63	00	1	7	10	16	6	16	52	Janudice		G1	- (61	;	!	1	- (40	00	-1	1
Males	9	01		1	*	1	-	113	61	=	60	14	=	15		_	10	+	04	-		-	-	- 01	01		- 1
Females	1	- 1	24	H	1	64	01	1	17	90	00	00	10	00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-	1	1	1	: 3¢	- 1	>1	90	-	÷	1
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Males	61	2 11	9 9	G	90	9	6	1	20	65	83	98	53	18			1	1	C+	64	61	93	60	2 2	12 15	53	Q1
Females	1	-01	1	-	-	G)	Ci.	1	=	18	13	9	20	-	; ;	•	:	1	04	;	-	01	н	1	-	-	- 1
Total	10	63	10	10	64	9	6	1	7.1	13	3	99	2	46 F	Kidney Disease		.:	-	01	4	60	03	10	6	7 6	00	œ
Males	9	9		-	1 10	4	80	1	3	42	3	20	13	37	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-:	-	01	00	-	-		1	7 5	00	00
Females	-	-	60	-	80	61	1	1	16	22	=	16	10	6	=	-1	:	1	:	-	Q1	94	-	G.	- 2	- 1	- 1
Total	99	01	-	-	-	00	-	1	23	12	8	13	10	10 18	Kidneys, Inflam. of	-	1	:	1	G.	7	1.	1	- 2	4	-	-
Males	61	1 1	0)	н	1	91	-	1	91	13	13	13	90	9			1 1	1	1	7	1	-1	1.0	1	00	-	-
Females	-	1	01	I	54 Ff	m	1	t	0	94	10	1	01	*		-	.1	1	1	64	H	1	,	:	-	1	- 1
Males	-1	1	1	:	:	4	- (1	i	;		:	-	1 1	Kidneys, Ulceration of		- 1	1	-	1		4	- 1	- 1	1	1	
females												-		1							= 1						

· Includes 1 "Black" and 4 "Yellow.

f Death.
Causes o
pecified
JONTINUED.—S
KVII.—(
TABLE 1

		M	MOM	TH	тнв, 1881.	188	-1					m	YEARS.	.						•	₽	AGES IN	Z		PERIODS OF	2	90	Ö		Ä	Years.—1881.	Ţ	88	- :	
S S X	February, March.	May.	-anne	-Amg	August.	September	October.	November,	December	Unknown, I	1880.		.6781	.8781	.7731	1876.	CAUSES OF DEATH.	1 1	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 00 20	25 to 30.	.08 01 08	.01 to 40.	'gr 01 nr	45 to 50.	.66 to 55.	.00 to 60.	'99 01 09	.07 03 38	70 to 75.	75 to 80.	S0 and over.
Males	- :	= 3	1		1	:	1	;	i	1	1	- 1	1		-	1	Fracture of Pelvis	1	1	:	1	;	1	1	-;	- 1	- 1	:	- 1	_1	:	- ;	1	1	
Males		- 1	1	- 1	1	÷	1	-	÷	1	-	+	1	01	i	1	Fracture of Ribs	-	1	1	-	i	1	1		1	- ;	- 1	- 3	- 1	:	- 1	1	- 1	- ;
Females		- :	1	1	1	:	i	+	+	1	1	1	-	- 1	i	1		1	1	i	i	i			- 1	- 1			. ;	- 1	- 1	- 1	- 1	- ;	- 1
Males		7	1	-	1	- 1	1	-	01	;	40	-	14	20	-	00	Fracture of Skull	+	1	1	\exists	1	- 3	01	-	-	- 1	1	- 1	4	1	-	1	- 1	:
Males		1	-	1	- 1	-	1	- 1	÷	:	+	00	-	00	1	1	Fracture of Spine	+	1	1	÷	i	1	-1	Ċ3	- 1	-	- :	:	:	1	-	1	- ;	ï
Females	:		1	1	1	÷	i	:	:	- 1	1	-1	1	1	-	1		-	1	- 1	i	i	1	1	:	:	:	- 1	1	1	- ;	÷	- ;	- ;	:
Males	:	2		1	ī	1	÷	:	-	:	-	C4	01	1	1	-	Fracture	:	1	- 1	1	i	1	-1	-	:	:	1	:	- ;	- 1	- 1	- ;	:	:
Males	_:	1	4	1	1	-		:	=	:	G1	00	*	01	-	4	Freezing	+	1	1	- 1	÷	1	- 1	:	- ;	21	-1	- ;	1	:	- ;	- ;	:	.;
Females		5		-	- G	3-	1	i	- 1	1	1	- 1	-	1	1	1		1	1	1	i	:	-:	- 1	:	- 1	:	1	1	_}	1	- ;	- ;	_ ;	-1
Males		1	1	1	1	-	÷	-	-	1	-	-	i	1	н	1	Fright	1	1	-1	1	i	- 1	-1	1	1	-:	:	:	1	- 1	- 1	1	- 1	- ;
Females		7	2	1	-		-	i	1	- !	1	1	ï		i	-	Fungus Hamatodes	1	1	1	Ť	- i	1	:	1	- ;	- 1	- 1	:	- 1	- ;	1		:	:
Females			1	1	- 1	1	÷	i	- 1	1	1	1	-	1	Ť	1	Gall-bladder, disten. of	+	1	1	i		- 1	.1	:	- 1	- :	1	:	- :	-1	1	1.	1	- ;
Males		1	:	1	1.5	-	ì	÷	1	- 1		61	1	1	1	1	Gall. bladder, Rupture of	1	1	:	i	í	;	1	:	•	:	1	1	- 1	1	1	- 3.	1	- 1
Females		- 3	12	1	:	1	1	:	1	-	;	=	i	1	1	1		÷	1	1	i	- 1	1	1	-1	1	1	:		:	- 1			1	- 1
Females		- 1	3	1	-7	1	i	-	1	-	1	!	01		i	1	Gall.duct, Obstruction of	1	1	:	- ;	1	1	1	1	1	- 1	. 1	7	- :	:	- 1	-	4	- ;
Males		1	1	1	1	1	-	i	-	1	1	+	i		1	-	Gall, Disease of	1	1	- 1	- 1	1	1	- }	- :	:	- ;	+	1	:	:	:	- 1	-)	- 1
Malcs		1	-	-6	-	1	Ė	- ;	-	1	01	-	-	1	01	-	Gall.stone	:	1	;	1		-	ì	.1	1	-	1	1	4	1	1	- 1	1	:
Females		-	1	1	1	1	;	-	÷	1	-	-	1		Ç.	1		:	1	:	:	- 1	- 1		:	1	1	1	:	- 1	1	- ;	1	:	- 1
Total		0	.:	1		:	÷	1	1	-	98	-	1	-	-	-	Gangreno, Senile	Ť	1	-1	;	:	1	:	ः		- 1	-	- 1	:	:	;	- 1	.:	04
Males		- 1	4	1	1	1		-:	-	4	-	- 1	1	-	1	-		-	1	. :	1	1	1	1	- 1	;	. 0	4	;	- 1	- 1	31	_;	- ;	
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Total 1 4 5	4	9	7	11 0	10	9	-	2	82	:	89	74	118	25	1	63 L.	Liver Dis	Disease	1 6	7	-	*	*	1	00	2	6	60	4	01	200
Males . 1 3 4	100		8	9	.00	00	-	10	6		34	36	40	2	12	15				-	-		-	10	93	1 5	NO.	-	63	G1	:
Females 1	-	-		0	-	80	20	-	100	1	70	38	3	3	21	30	*		:	1	20	01	10	01	1	01	4	01	4	-	01
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Malos	1	:	1	- 1		i	÷	- 1	- 1	:	96	1	01	20	9	1			1	-	+	;	:	-	1	-	_1)-	Ť	- :	_:
Females	1		- 1	-	- 1	1	:	61	:	1	10	00	Q1	O1	10	2	2	*	61	i	1	1	1	i	1	-	-	-	i	1	:
Males	1	- 1	1	1	1	j	i	+	-1	:	-	- 1	+	-			ver, Fat	Liver, Fatty Degen. of	1	i	÷	-	1	1	+	114	- 1	- 1	- 1	7	:
Total 1	-		01	64	-	01	-	-	-	1	=	=	90	01	9	7	ver, Int	Liver, Indam. of	-	i	-	-	1	-	1	64	01	н	-	1	:
Males	1		69	-	1	-	-	-	1	1	7	6	9	9	*	01	:		1	i	1	-		-	- 1	-	-	m	-	- 1	
Females 1	-	1	_	-	-	-	1	1	1	1	70	01	91	**	69	9			1	÷	+	- 1	1	- 1	1	-	-	-8	1	1	:
Males	- 1	1	1	1	- 1	1	1	+	1	1	1	1	-	-	4	-	ver, 088	Liver, Ossification of	1	i	1	1	1	1	+	-1	1	18.	-	1	:
Females	+	1	i	1	1	i	1	1	1	1	1	1	1	-1	1	1 [ver, Ru	Liver, Rupture of	-1	1	+	1	1	Ť	1		- 1	1	4	÷	:
Males	+	T	-	+	1	1	4	-	-	1	p4	1	1	-	-	1	ver, Sch	Liver, Scirrhosis of	1	i	+	- 1	1	=	+	-1	-1	2	Ť	1	-
Females	1	1	1	1	-1	i	÷	1	- 1	1	1	н	1	1	-	-			-	Ì	+	+	1	1	1	- 1	:	- 1	÷	-	:
Females	1	1	+	1	1	i	1	1	1	1	1	1	;	-		T	Liver, Tumor on	mor on	1	Ť	+	-	1	- 1	÷	- 1	:		1	-	:
Males	1	1	1	:	1	4	1	1	1	i	1	~	-	60	01	10	Liver, Ulcer. of		-	i	1	:	1	1	+	- 1	- 1	- 1	i	1	:
Females 1	1	-1	-	+	-1	i	÷	+	1	1	*	-	-	-	1	01			-	i	1	1	-1	Í	1	-1	- 1	1	-		1
Males	1		1	1	-1	1	1	1	1	i	:	1	1	-	1	1 1	Loss of Eye		1	i	÷	;	1	;	+	у.	- 1		÷	÷	-
Males	1	Ì	1	1	1	1	1	1	.1	i	1	-	1		•	1	Lumbago		1	i	1	1	1	İ	1	٦į.	:		1	:	:
Females	1	1		1	1	1	1	1	1	1	1		1	-					1	i	-	:	1	T	+	- 1	1	1	Ť	1	:
Total 1	-	1	_	-	1	-	C4	1	21		9	00	09	9	00	4 L	ings, Al	Lungs, Abscess of	1	-1	-	-	-	1	-	4	1	-	;	:	:
Males	1	1		-	1	- (-	1	-	1	10	Q1	C +	60	-	00		***	1	1	÷	-	-	1	1	3	- 1	- 1	1	1	:
Females 1	:			1	1	14	-	1	-	1	90	-	-	6.0	C.	-	:		1		-	1	- 1	1	-		-1	1	- î	-	_:
Males	:	;	d	+	1	-1	-	+	- 1	i	1	;	C1	1	1	1	unge, A	Lungs, Apoplexy of	1	i	1	*	:	i	+	-4	- 1		÷	1	:
females	-	. ;	1	1	- 1	;	Ť	1	-	1	1	1	-	:	t	:	:	, ,		i	÷	+	1	i	+	Y	_;		1	;	_:
fotal 12 13 24 26 9	21	3	25	6	6	6	=	18 13	10 55	- 1	171	212	176 12	180	139	1 26	192 Lung Disease		78 7	10	00	69	*	03	00	2	22	1	=	-	- 9
stales 5 10 13 17 4	5	92	17	-	01	KC	-	00	7 7	1	8	25	107	10	2	011			63	60	64	69	-	-	64	60	00	03	-	10	_
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TABLE XVII.—Continued.—Specified Causes of Death.

		Mont	гив, 1881	1881.			_		X	YEARS.						₹	AGES IN	8		3BI	PERIODS	0.		YEARS.—1881	, 1	8	-:	
S. X. S. S. S. S. S. S. S. S. S. S. S. S. S.	February.	April. May.	July.	September.	October. November.	Десешрет.	Unknown.	1880	.6781	1878.	'218t	1876.	CAUSES OF DEATH.	Hi .	Under 5.	5 to 10.	10 to 15.	20 to 25.	26 to 30.	80 to 85.	40 to 45.	45 to 50.	.čč to 55.	.08 ot 68. 60 to 65.	65 to 70.	70 to 75.	75 to 80.	.тэто bда 08
Malcs		1	= †	- 1	-	-1		01	-	- G1	00	01	Head Disease		01		1	1	1	-:	- :	- 1	1	1	-	- 1	- 1	77.4
Females		1	= 1	4	1	- 1	- 1	1		-	-	61	"		1	- 2	;	1	1	-1	1	- 1	Ť.	1	-	- 1	- (- 1
Males			्रा	-1	- 1	1		1	1	- 1	-	H	I Head, Inflam. of		1	1	- 1	-1	- 1	-	:	:	i	1	- :	_ :	- :	- 1
Females			-1	- 1	:	;	,	H	-	-	100	1	" "		1	-	- 1	- 3	- 1	- ;	4	- 1	i	- 1	- 1	- :	. 4	19
Males		7	1	1	1	1	1	1		-	1	1	Head, Neuralgia in		1	1	- 1	- 1		-	- 4	- 1	- }.	- 1	+	- :	1	-
Females		1.4	Sk	1	1	. (-	1	1	+	4	-	,, ,,		1	1		. 1	1	- 1	1	- 1	i	:	- 1	- :	:	- 4
Females			-3.	1	:	1;	+	1	-	1	-	1	Head, Rupture in		1	1	1	-1	1	-	1	:	1	- 1	1	:	1	- The
Males		7	-1	-	- 1		1	1	:	-	-	:	Heart, Abscess of		1	1	- 1	1	1	1	:	- 1	1	1		- 4	- 1	- 4
Males			- 1		-:	-		01	1	1	1	1	Heart Clot		i	ï	4	- ;	-	· ·	- ;	- 1	1	1	7			- 1
Females		- 2	_1	- 1	1	~ (- 1	1	1	- 1	-	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		i	3				1	-:	- 1	i	- 1	+	-:	- 1	
Total		-	-:	7	-	10	-	11	1	1	- :	-	Heart, Cramps of		11	-	-		4	-	-	- ;	1	-	+	- :	+	
Males		-	-:	1	1	61		9	1	1	1	- 1	, ,		49	1	•	- }	- 1	- :	- :	1	1	1		- 1	- 1	- 9
Females	30.		7	-	-	7	-	9	- 1	1	:	-			9	1	3	- 1	- ;	:	- 1	- 1	:	-	- 1	- :	- ;	- 1
Females	_	3	3		1	+4	1	1	-	-!	1	1	Heart Discase, Organic		i	1	-	-1	1	- 1	4	- 1		0	- 1	- 1	. 1	1.9
Total 35	es	39 30	40 42	85	19 37	19	91	451 44	444	414	332 367	_	330 Heart, Disease of		35	22	11 10	64	17	18 17	12	20	88	355	38 47	=	35	15
Males	10	20 23 15	20 26	16	59 19	20	01	256 23	236	222	187 19	101	180		64	-	20	00	=	1-	1-	55	90	65	20 28	98	8	21
Females	91	11 16 15	20 16	Z	20 18	91 10		193 208	_	195	145 17	172 1	135		13	9	9	-	9	=	10 18	12	20	- 22	01 81	13	22	60
Unknown.		**	= 1.	1.	1	- (-	1	1	1	1	-	, ,	i	1	-	- 1	-1	1	-	-:	- ;	- 1	:	1	:	- (•
Total		1	-	1	:	- 1		*	6	10	10	2	2 Heart, Enlargement of		1	1	- 5	-	1	-	:	;	7	-:	- 1	- 1	- 1	E4
Males		1	1	- (:		00	-	104	00	-			1		-:	7	-:	1	-	;	- 1	-;	+	1	1	-
Females					-			•	-	-	-	_	4			1	_			-						_		

Total	Heart, Fatty Degen. of
Females 1 1 3 1 2	1 1 1
Females 1 1	Heart, Hemorrhage of
Males 1 1 1	Heart, Hypertrophy of
Females 1 1 1 1 1	
Males 1 1 1 1 2	Honrt, Inflam. of
Fomales 1 1 1 1 1 1 1	
Males 1 1 1	Heart, Malfor. of
Total 1 . 1 1 2 2 1 2 10 6 12 8 9	9 Heart, Neuralgia of
Males 1 2 1 1 1 6 2 4 8 8	8 " " " " " " " " " " " " " " " " " " "
Fomales 1 1 1 4 4 8 2 6	1
Malos 1 2	1 Heart, Ossification of
Males 1 3 1	1 Heart, Palpitation of
Females 1 1	
Total 2 1 2 4 3 1 3 2 1 2 5 26 12 14 12 8	2 Heart, Paralysis of
Males 2 1 1 2 2 1 3 1 2 2 17 3 5 8 3	2 " " " " " " " " " " " " " " " " " " "
Females	" " " " " " " " " " " " " " " " " "
Males 1 1	Hoart, Rupture of
Fomales	
Total 1 1 2 1 2 3 1	2 Heart, Valvular Dis. of
Malcs 1 1 1 1 1 1 1 1 1 1	
Females	
Malos 2 2	Hemorrhage of Bladder
Males 6 8 4 4	8 Hemorrhage of Bowels 2 1 1 2
Females	
Malos	Hemorrhage, Corebral

TABLE XVII.—Continued.—Specified Causes of Death.

OADSTANDAMENT 1 1 1 1 1 1 1 1 1		-	top	MONTHS		1881.						YEARS.	RS.	1				A	GE	AGES IN		PERIODS OF YEARS.—1881.	OD	8 0	A	VE.	188	7	881		1
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Females	- 1	- 1	-	- 1	- 1	- 2	- V	- 0	1	1	60		1		1	6	1	1	4	1	:	1
Total	9	64	10	7	100	60	1	1	19	16	21	16	23 Jaundice	9	11 2	01	04	-		4	00	1
Males	9	01	- 01	1	G4	-	- 1	101	=	13	14	=	15 "	•	10 1 1	01	-	nd.	Ċ1	1 2	4	1
Females	-	:	- 44	-	-	43	:	17	00	03	.00	2	- 00		4 1	- 17	H	-	51	100	7	;
Total	9	52	9	01 8	8 6	6	e de	89	8	38	64	13	29 Kidney,	22 Kidney, Bright's Disease of	01	-9	1 3	5	4 9	9 12	16 14	01
Males	0	=	9	6	8	6 9	1.10	73	62	53	56	53	81	, ,		01	64	4	60	61	15 13	Ġŧ
Females	1	69	1	1	-1	1	i i	=	100	13	9	21		,, ,,	1	01	-	01	25	1	-	1
Total	5 7	4	10	10	5 13	6.9	9	17	13	53	99	65	46 Kidney 1	Disease	1 1	GI.	00	01	9	9 7	9	90
Males	5 6	G1	C1	7	10	6	00	200	42	45	3	33	37		;	91		-	4	7	20	00
Females	F ::	-	60		00	4	-1	16	13	11	16	t~	6		1 00	7	OH.	0.0	-	01	+	1
Total 3	-1	01	4	**	*	-	11.5	85	15	18	13	10	10 Kidneys,	Kidneys, Inflam. of	1		7 7	11	41	1.4	-	-
Males	04	1 1	01		0.0	-	1	1	13	133	133	00	9	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7	-1	-	- 1	03	00	=	-
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Males	:	1			11	- 1	11	-1	- 1	**	10	-	1 Kidneys,	Kidneys, Ulceration of	1	1	1	:	- 1	- 1	1	1
Females								4					"	:	3		- 4				-	

. Includes 1 "Black" and 4 "Yellow.

TABLE XVII.—Continued.—Specified Causes of Death.

	THE WORKS						- 1						. 4									
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YEARS1881.	.07 of 65	1 1	- 1	:	1	-	- 1	-	-	1	1	-	:	-	:	:	-	-:	-	_ :		1
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E	.00 ot 66	1 ;	-;	- 1	- 1	- 1	- 4	;	;	-	-	- 1	85	-	- 1	03	01	-	1	-	_	1
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80	40 to 45.	1	-	- 1	- 3.	1		- 1	- ;	1		1	-	1	5	-	-	-1	1	1		:
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ER	30 to 35.	1 :	1	12	- :	- 1	11	- 1	:	:	1	:	-	-	:	-	1	-	1	-		:
4	52 to 30.	- 1	1	:	- ;	;	-;	- ;	1	- 1	1	1		1	:	- 7	1	(1)	- ;	-		
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	1880	-	-	01	C4	1	-	-	-	31	1	1	12	12	1	00	7	*	1	-	-	
	1881	1	1	1	i	1	1	1	1	1	1	1	0	-	01	1	0	01	-	-04	-	-
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Females		1	1	:	1	1	1	1	1	1		-	- 1	1	- 10	1	1 Liver, Rupture of		3	- 1	-7	+		1	- 1	1	1	- 1	- 1	- 1
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Males	1	;	1	ï	1	1	1	1	1	-	1	1	1	- 1		1	Loss of Eye	-	1	;	1	- 1	- 1	1	- 1	ż	1	- 1	:	
Males	1	:	1	1	+	-	1	1	+	1	-	-	1	1	1	:	Lumbago	-	1	1	1	1	-	1	+	1	-1	7.	- 1	- 1
Females	1	1	1	- 1	+	1	1	1	1	1	4		1	.1		- 1		1	;	;	i	÷		1	1	÷	-	. 1	- 1	- 1
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Males	1	1	-	1	1	-	1	1	-		60	C+	G)	20	н	10		+	11	1	1	-	-	1	÷.	i	- 1		:	f
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TABLE XVII.—Continued.—Specified Causes of Death.

Момтив, 1881.	Es,	Es,	Es,	Es,	Es,	, 1881.	981.						_			YEARS.	RS.					31	AG	AGES IN	N	P	RI	go	0 8	Y.	PERIODS OF YEARS1831	18.	=	81.		
1838, 1839, 1840, 1840, 1840, 1840, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 1841, 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TABLE XVII.—Continued.—Specified Causes of Death.

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TABLE XVII.—CONTINUED
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· Includes Arsenic I, Eating matches I, Vegetable poison I, and Photographic Chemicals I.

TABLE XVII.-Continued .- Specified Causes of Death.

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	CAUSES OF DEATH,	Poison	Prolapsus Uteri	Prolapsus.	Prostate, Disease of	Prostate, Enlarg't of	Prostate Gland, Swelling of	Prostatitis, Chronic.	Prostatitis	Prostration		Puerperal Congestion	6 Puerperal Convulsions	29 Puerperal Fever	Puerperal Peritonitis	Puerperal Septicionia	Purpura Hemorrhagica		Pysmia
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Females	-	-	-		1 1	1	1	1	
Males :- :- :- :-	1	1	-	Tumor of Head	1 1 1	1	•	: Fs	1
Females	1	-	01			1	1	10.	1
Males	1	1 1	1	Tumor of Heart	1	1	-		1
Femalos	1	1	1	Tumor of Knee	1 1 1	1	16		1
Females	1	-	-	Tumor on Leg	1	1	1		_;
Females		01	1	Tumor on Liver	1 1	1			
Females	1	1	1	Tumor on Left Lung	1 1	1	4		:
Males	1	1	1	Tumoron Lungs	1 1	1	1		:
Females	1 1	1	-		1	1	1		:
Total 1	1 1	60	GH	1 Tumor on Neck	1 1	7	4	1	X-V
Males	-	00	1		1	1	H	- 1	:
Females	1		6		1	-	1	12	:
Malos	1	1	1	Tumor, Operation for	1 1	1	1	- *	1
Females	1	01	1		1 1 1	1	1	9	:
Males	1	1		1 Tumor on Shoulder	1	1	1	T	:
Males	1	**	1	Tumor in Side	1 1	1	1	· V	
Females 1	. 1 . 1 1	60 1	1		1 1 1	-	+		: - Y
Total 1 1 1 4	01	12 10 6	4	5 Tumor in Stomach	1 1 1	1	6.	1	-
Males 1	1	9 9	C1		1 1 1	1		H	:
Femalos 1 1 1	1 . 9 . 1	01	9 01		1 1	;	01	- 4	-
Males	1 1	1 2 1	-	Tumor on Throat	1 1	1			:
Females	1	1	-		1 1	1		- 1	:
Total 4 3 4 3 3 1	6 3 4 0	33 25 28	30 25 1	16 Tumor (Unspecified)	1 2	. 9	21	20 20	Į,t

TABLE XVII.—Continued.—Specified Causes of Death.

					ĭ	Моктив, 1881.	18,	1881.				_		YE	YEARS.						AGA	1 83	1	E E	AGES IN PRRIODS OF YEARS,-1881	3.	EA	<u> </u>	200		ì	1
SEX	- Annunc	February.	April.	May.	June.	July.	August.	September.	October. Xovember.	December.	Unknown.	1881.	1880.	.0781	.8781	.7781	18281	CAUSES OF DEATH.	Under 5.	2 (0 10)	10 to 15.	707 01 07	.08 01 52	30 to 35.	40 to 45.	45 to 50.	22 to 60.	60 to 65.	65 to 70.	75 to 80.	1940 ban 08	Taknown, 1
Males	-							C4	1	01	- 3.			1-	G		0(Tumor (Unspecified)	1	1	1				1		-			- :	-:	
Femules	10	20		21	e)			*	10	01	0	53		64	57		2	:		-		1	_		94				25		:	
Females	N		-	-				3		1	1		90	01	10	62	*	Turn of Life	-	:	1	1			21		- 5				_	
Males	1			:	:				1	į.	4			1	F.		1	Tympanitis	:	1	1	1			100		Ţ			- ;	1	
Males	1			:	:			1	1	3	1				1		- 2	Ulcer on Back	1	1	Ÿ	0	-				1			-	4	
Females	-			•	_:	7		1	-1	7				1	1			Ulcer in Head		:	1	+			T	-	12				Ť.	
Males						1		- ;	7	1	1	1		-	1		- 4	Ulcer on Leg	- 1	1	3	1			F	-	1	- 3		1	1	
Females	- †	_				1		;		-	- 4	-		1	1		:		- 1	1	1	:			-	-	Ţ,	-	-	- 1	1	
Males	- 1	. 2		_		ř		1	- 1	-1	4	- [1	1			Ulcar on Nack	- 1			÷	_			1	1	4	1	1	-	
Males	î	-1	1			1		1	1	1	4	1		1	-	- 7	-	Ulcer on Penis	1	:	1	1				1	1	÷	-		- ;	
Males	i	1	-7			1		ţ	1		1	1		i	ï		:	Ulcor near Pylorus	1	1	1	:				18	- 1	1	1	1	7	
Males	1	1				1			1	1	1	1		1	1		1	Ulcer of Rectum	1	1	i	1		-:		1	;	-	1	:	1	
Males	1	-	1		_	1		1	1.5	4		1		1	-	1	1	Ulcors on Skie	II.	1	1	1				7	. 0	÷	4	1	-	
Females	1	1	1			î		1	1	1	- 1	1		1	1	i	1		1	1	1	-				Ť	1	÷	1	1	1	
Males	;	- 1	-10			1			÷		1	1		-	1	1		Ulcer of Throat	1	:	t	1				1		÷	1	-4	-	
Total	Ť	1	5			E		-		01	1	1-		-	10	0	06	Ulcers (Unspecified)	-	-	3	1	Ė		-	5	-	-	01	3	7	
Males	i	-1		1		1		+		-	. 4	-	- 1	5%	*	*	7	:		-	i	-	_	-4	- 1	1	-1	-	:	:	- :	
Females	1			*		2		;		1	2	00		63	-	*		:	1	1	1	1	Ė		-	117	-	:	: H	:	1	
Total	95 94		134	134 126	117	67	88	199	=	122 13	136 12	1632	#	1390	1306	1393	233	Unknown.	103	8 48	2	25 34	83	37 24	20	10.0	88	83 26	38	23	57	6 7
Males	2	17 57	7 67	09	63	74	103	25	18	73 6	68 6	3	773	736	708	745	629		296	6 23	6	13 13		8	1-	9 10	2	2	16 22	91	21	업
Fomales 53 46	53.4	9	0 57	65	52	67	7.0	87	83	69	68 6	772	662	658	909	636	558		499	8	9	10 93	81	26 16	=	6	캂	11 10	91 16		0	2
Unknown.				4	21	90	:	Ξ			, :	D	_	e	8	13	16	:		-		-			T	-3		-	_	- 3		_

Exhibit R shows the specified causes of deaths returned and compiled as casualty.

EXHIBIT R .- Deaths in Michigan in 1881, Compiled as Casualty.

CASUALTY,—CAUSES AS RETURNED.	Num- ber.	CASUALTY,—CAUSES AS RETURNED.	Num- ber.
Total number tabulated as Casualty in Table XVII	825	Drinking lye.	9
		Thrown from a horse	4
Killed in mine	28	Thrown from buggy	
Run over by wagon	4	Injuries received in a quarrel	1
Killed by explosion of powder	12	Fell from lumber pile	1
Killed	6	Killed by a tree	1
Killed by a fall	13	Fright of mother by fire	1
Accidental explosion	2	Inflammation caused by fall	
Nitro-glycerine explosion	2	Fell from barn	1
Killed by falling gravel	2	Fell from bridge	. 1
Foll from ladder	1	Killed by the falling of an elevator	. 1
Accidentally shot	15	Injury to one of his limbs	1
Foy pistol	2	Accident, wound by pitchfork	1
Killed by accident	80	Accident by runaway	1
Killed by rolling log	11	Killed by a straw-cutter	
Kicked by a horse	9	Dislocation of shoulder	1
Caught in shaft of mill	1	Killed by a fall at State Capitol	1
Fell from mast of schooner	1	Accidental severing jugular vein	1
Accident in saw-mill	8	Fit, fell in fire and burned to death	1
Fall from building	2	Crushed under a stone	9
Killed in mill	6	Feli from wagon	4
Explosion of mill	1	Killed in well	•
Killed by engine	1	Thrown from mowing-machine	1
Foll in a vault	2	Injury of spine from fall	1
Fall of limb from tree	1	Jumping from cars	9
Accident, burned by gasoline	1	Injury by machinery	1
Fell and broke his back	1	Hooked by a cow	1
Killed by a horse	4	Falling down stairs	1
Killed by a mulo	1	Struck by locomotive	1
Thrown from bridge	1	Hurt by a steer	1
Boller explosion	12	Accidentally shot himself	9
Head crushed by timber	1	Fall from a load of stalks	1
Lun over by cars	3	Bled to death from a cut en failing against a wind	
Killed in woods	2	Fell and head	
[njury	4	 ,	
injured by falling in well	ı		

Killed in lumber woods.....

EHXIBIT R.—CONTINUED.

CASUALTY,—CAUSES AS RETURNED.	Num- ber.	CASUALTY,—CAUSES AS RETURNED.	Num- ber.
Blow on the head	1	Crushed to death, R. R.	1
Hurt in the head years ago-brain injury	1	Fell in cold water	1
Fell out of swing and broke neck	1	River accident	1
Strain	1	Killed by a ball	1
Accidental fall from tree	2	Fell from oar dock	1
Accident in stave-mill	1	Falling on a nail	1
Injury of back	1	Killed in steamboat explosion	1
Accident, fell down stairs	1	Fell from a load of hay and killed	1
Killed, broke his neck	1	Hit with stone by boy with sling	1
Killed by block thrown from saw	2		

EXHIBIT 9.—Certain facts concerning Persons Returned as having died by Suicide in Michigan during the Year 1881.

DATE OF DEA	хтн.		Condi-					
MONTH.	Day.	Agc.	tion.	Sex.	Color.	Occupation.	Nativity.	Means Used
January	6	. 28	M.	F.	w.	Hotel work	Unknown	Foison.
February	6	80	Unk.	M.	w.	Clerk	Unknown	Poison.
February	8	65	w.	м.	w.	Farmer	New York	Hanging.
February	14	35	M.	м.	w.	Physician	Michigan	Not given.
February	14	46	M.	M	w.	Miner	Ireland	Hanging.
February	26	28	s.	F.	w.	Student	Michigan	Drowning.
March	7	36	w.	M.	w.	Shingle Manf'r.	Canada	Shooting.
March	11	82	M.	M.	w.	Laborer	Gormany	Not given.
March	26	52	Unk.	М.•	w.	Notion store	Germany	Shooting.
April	18	18	S.	M.	w.	Laborer	Ohio	Not given.
April	22	26	M.	F.	w.	House-keeper	Michigan	Not given.
∆ prfl	30	35	s.	M.	w.	Farmer	Denmark:	Hanging.
May	7	47	М.	M.	w.	Tailor	Germany	Shooting.
K ay	22	16	8.	F.	w.	Houseworkers	Wisconsin	Poison.
L ay	27	62	M.	F.	w.	House-wife	Germany	Cut her throa
May	Unk.	67	w.	M.	w.	Farmer	New York	Not given.
•	i , 6	64	M.	M.	w.	Farmer	New York	Paris Green.
		82	w.	М.	w.	Farmer	New York	Shooting.
			s.	M.	w.	Farmer	Michigan	Not given.
			w.	M.	w.	Farmer	Vermont	Not given.
			¥.	F.	w.	Unemployed	Michigan	Not given.
				M.	w.	Farmer	Pennsylvania	Not given.

EXHIBIT 9.—Continued.—Suicidal Deaths, 1881.

DATE OF DE	TH.	1.	Condi-					•
MONTII.	Day.	Age.	tion.	Sex.	Color.	Occupation.	Nativity.	Means Used
July	Ð	41	М.	F.	w.	Farmer's wife	Michigan	Hanging.
July	20	33	s.	M.	w.	Logger	Germany	Strychnine.
July	23	69	М.	M.	w.	Laborer	Canada	Drowning.
July	23	44	M.	F.	w.	flouse-wife	New York	Not given.
July	31	61	M.	М.	w.	Merchant	Indiana	Not given.
August	2	20	s.	F.	w.	Servant	Michigan	Laudanum.
August	4	26	S.	М.	W.	Farmer	New York	Hanging.
August	5	48	w.	M.	w.	Mason	Michigan	Not given.
August	10	44	M.	М.	w.	Painter	Michigan	Not given.
August	12	54	w.	M.	w.	Grocer	Pennsylvania	Poison.
August	23	16	s.	F.	w.	Student	Germany	Poison.
August	23	53	M.	М.	w.	Farmer	Germany	Not given.
August	23	16	s.	F.	w.	Unknown	Massachusetts	Poison.
August	24	54	M.	F.	w.	House-wife	New York	Not given.
September	5	19	M.	F.	w.	House-wife	Michigan	Poison.
September	9	Unk.	M.	M.	w.	Laborer	Germany	Hanging.
September	9	59	8.	М.	w.	Unknown	New York	Not given.
September	15	69	M.	М.	w.	Unknown	Vermont	Shooting.
September	20	40	М.	M.	w.	Farmer	Germany`	Not given.
September	20	Unk.	M.	M.	w.	Farmer	Unknown	Not given.
September	26	56	M.	M.	w.	Farmer	France	Shooting.
October	2	41	M.	M.	w.	Physician	Ohio	Not given.
October	7	29	W.	F.	w.	Farmer's wife	Michigan	Morphine.
October	28	36	M.	M.	w.	Laborer	New York	Not given.
October	30	49	М.	F.	w.	House-wife	Nova Scotia	Hanging.
November	1	23	Unk.	М.	w.	Soldier	Michigan	Poison,
November	5	35	M1.	M.	w.	Farmer	New York	Drowning.
November	5	5 1	М.	М.	w.	Farmer	England	Not given.
November	8	50	M.	М.	w.	Physician	Ontario	Not given.
November	9	37	М.	М.	w.	Clerk	Michigan	Not given.
November	24	50	м.	М.	w.	Teamster	England	Not given.
December	3	70	w.	M.	w.	Farmer	Michigan	Not given.
December	15	79	M.	M.	w.	Farmer	New York	Hanging.
December	17	33	М.	M.	w.	Lawyer	Ireland	Not given.
December	25	37	м.	М.	w.	Farmer	Germany	Not given.

EXHIBIT 9.—CONTINUED.—Suicidal Deaths, 1881.

Laudanum		1			ı			
Hanging	1	1	Paris Green	1		Strychnine	1	•••••
Drowning	1	1	Not given	1 1	4	Shooting	6	
Out her throat	1	. 1	Morphine	. !	1	Poison	-	5
ABARS USED.	Males,	Fe- males.	MEANS USED.	Malos.	Fe- males.	ALEANS USED.	Malea.	Fe- males
MBANS USED.	Nun	BER.	MEANS USED.	Num		Means Used.		BER.
Indiana		. 1	Ohio		. 2			
Germany	· 	- 10	Nova Scotia		- 1	Wisconsin		- 1
France		. 1	New York		. 11	Vermont		. 2
England	- 	. 2	Michigan	·····	. 14	Unknown		. 3
Denmark		1	Massachusetts		. 1	Pennsylvania		2
Canada		2	Ireland	•	. 2	Ontario	• • • • • • •	. 1
NATIVITY.		No.	NATIVITY.		No.	NATIVITY.		No.
Laborers		5						
Housework		. 1	Physicians		. 8	1		
Housewives		. 5	 Painter	· • • • • • • • • • • • • • • • • • • •	. 1	Unemployed		1
Housekeeper		. 1	Notion store			Teamster		. 1
Hotel work			Miner		1	Tailor		-
Grocer			Merchant		: 1	Students		-! -
Farmers' wives			Logger		1 1	Shingle manufactu Soldier		
Clerks			Lawyor		1 1	Servant		
		-	<u> </u>		-			-

The fifteen principal causes of death in 1881, according to the returns, are arranged in order in Table XVIII., enabling us to study their numerical relations. Exhibit T presents a similar classification for each of the years 1876-1881.

Although diseases of the lungs caused a greater number of deaths than diseases pertaining to any other organ of the body in 1881, when we consider consumption alone it is for the first time, second in the list of the fifteen principal causes of deaths. Diphtheria, in 1881, heads the list. The fact of the very great prevalence of diphtheria in 1881 explains the large excess of zymotic diseases of the year, as previously mentioned. In 1874, diphtheria numbered last in the list, and was not included in the list of the fifteen principal causes in 1875. In 1876 it was tenth in the order, being third in 1877, and second the assessed of three years 1878, 1879, and 1880.

TABLE XVIII.—Order of Succession of Fifteen Principal Conditions and Causes of Death in Michigan in 1881, according to the Returns, Exhibiting for each Specified Condition and Cause, by Sex, the Number of Deaths, and the Per Cent. of Deaths from each Cause to Deaths from All Causes.

SB.	SPECIFIED CAUSES AND	Numi	ER OF DE	ATHS.		. FROM EAS FROM AL	OH CAUSE L CAUSES.
ORDER.	CONDITIONS, 1881.	Total.	Males.	Females.	Total.	Males.	Females.
1	Diphtheria	a 2,063	1,030	1,080	10.72	10.04	11.56
2	Consumption	1,954	905	1,049	10.16	8.82	11.77
3	Fever, Typhoid	884	491	893	4.60	4.78	4,41
4	Cholera Infantum	ь 857	462	3 91	4.45	4.50	4,39
5	Pneumonia	c 805	467	837	4.18	4.55	3.78
6	Old Age	725	8 69	365	8.77	8.51	4.10
7	Still-born	્ય 69 1	378	270	8.59	3.68	2.03
8	Diarrhea	501	258	213	2.60	2.81	2,39
9	Heart Disease	451	256	195	2.84	2.49	2.19
10	Scarlet Fever	r 383	186	196	1.99	1.81	2,20
11	Apoplexy and Paralysis	869	214	155	1.92	2.09	1.74
12	Brain, Inflammation of	361	192	169	1.93	1.87	1,90
13	Bowels, Inflammation of	g 342	188	153	1,78	1.83	1.72
14	Convulsions and Fits.	837	184	153	1.75	1.79	1.72
15	Casualty	325	297	28	1.69	2.89	.31
	Total	h 11,048	5,898	5,097	57.48	57.47	57.21
	All Causes	1 19,288	10,263	8,910	100.00	199,00	100.00

<sup>Includes 8 unknown sex.
Includes 1 unknown sex.
Includes acute and chronic.
Includes 1 unknown sex.
Includes 65 unknown sex.</sup>

Includes 4 unknown sex.
 Includes 43 unknown sex.
 Includes 1 unknown sex.
 Includes 53 unknown sex.

FIFTEEN PRINCIPAL CAUSES OF DEATH.

প্র	XIIIBIT T.—0	rder	EXIIIBIT T.—Order of Succession of Fifteen Principal Causes of Death in Michigan for each of the Years 1876 to 1881, inclusive.	Fifte	sen Principal Co	Causes of inclusive.	of Death in Micive.	higa	n for each of th	18 Ye	ars 1876 to 15	181,
BRDER.	1576.		1877.		1678.		1570,		1980.		1881.	
_	Consumption		1,590 Consumption	1,864	1,664 Consumption	1,641	1,641 Consumption	1,680	1,680 Consumption	1,829	1,829 Diphtboria	2,063
C1	Still born	919	16 Still-born	82	720 Diphtheria	881	887 Diphtheria	1,478	1,473 Diphtheria	1,542	1,542 Consumption	1,854
ຕ	Pneumonia	627	27 Diphtheria	293	593 Still.born	793	793 Still-born	749	749 Pneumonia	812	812 Typhoid Ferer	38
7	Old Age	483	83 Old Age	8	489 Old Age	579	579 Pneumonia	<u>0</u> ,	701 Still born	738	738 Cholera Infantum.	527
•	Typhoid Fever	93	26 Pneumonia	465	465 Pneumonia	403	402 Old Age	808	608 Old Age	625	625 Pneumonia	S
•	Scarlet Fever	88	399 Typhoid Fever	446	446 Scarlot Fever	429	429 Scarlet Fever	418	418 Typhoid Fever	513	513 Old Age	752
7	Apoplexy and Paral.	837	837 Scarlet Fever	104	404 Heart Disease	332	332 Heart Discass	414	414 Cholera Infantum.	489	499 Still-born	8
80	8 Cholera Infantum.	833	31 Cholora Infantum.	370	370 Typhold Fever	33	329 Typhold Fever	397	397 Heart Disease	444	444 Diarrhea	109
3	9 Heart Disease	88	320 Heart Disease	367	367 Apoplexy and Paral.	878	328 Apoplexy and Paral.	888	358 Apoplexy and Paral.	88	389 Heart Discase	121
2	10 Diphtheria	311	11 Apoplexy and Paral.	828	329 Convulsions and Fits	88	288 Cholera Infantum	8	300 Scarlet Fever	870	370 Scarlet Fever	388
Ξ	11 Diarrhea	Š	04 Convulsions and Fits	888	298 Cancer	269	269 Convulcions and Fits	278	275 Convulsions and Fits	347	847 Apoplexy and Paral	69
12	12 Brain, Infl. of	275	75 Brain, Infl. of	â	291 Dropsy	518	249 Cancer	272	272 Casualty	948	340 Brain, Infl. of	361
13	13 Convulsions and Fits	G4	75 Cancer	388	265 Cholera Infantum.	243	243 Dropsy	560	260 Diarrhea	310	310 Bowels, Infl. of	342
7	14 Cancer	241	41 Diarrhea	28	265 Brain, Infl. of	226	225 Casualty	245	245 Brain, Infl. of	200	300 Convulsions and Fits	337
2	15 Bowels, Infl. of		289 Bowels, Infl. of	88	226 Bowels, Infl. of	514	214 Bowels, Infl. of	237	237 Cancer	82	264 Casualty	325
l												

TABLE XIX.—Deaths from Ten Specified Causes Returned as having occurred in Michigan, during the Year 1881, Exhibiting the Number of each Sex, Total Number in each Month, and at different Periods of Age.

Total	_	each Sex, 10	itat 1vi		in eac					ii Fet	1048 0	Age.
AND AGES. Cancer Cepha litis. Croup. Dishteria. Diphteria. Diphteria. Coulomb litis. Croup. Coulomb litis. Croup. Coulomb litis. Croup. Coulomb litis. Croup. Coulomb litis. Croup. Coulomb litis. Croup. Coulomb litis. Croup. Coulomb litis. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup. Croup.	1	SEX. MONTHS.				CAU	SES OF L	PRATH,—	1881.			
Males			Cancer.	Cepha- litis.	Croup.				Measles.		Typhoid Fever.	Whoop- ing Cough.
Females 198 169 151 213 1,030 130 136 196 J933 Unknown		Total	810	861	879	501	2,063	270	254	883	884	142
Unknown	×	Males	112	192	228	283	1,080	140	118	186	491	70
January	S	Females	198	169	151	218	1,030	130	136	196	393	72
February. 16 21 43 4 98 2 15 31 15 March. 25 29 30 12 111 2 17 34 23 April. 26 28 25 11 133 44 36 34 May. 26 17 20 17 126 4 63 45 27 June 26 24 11 45 125 9 25 33 35 July 30 31 14 105 155 31 21 35 45 August 25 57 28 167 162 91 26 35 99 September 29 43 27 83 235 82 9 23 150 October 32 38 30 40 316 32 7 17 178 November 21 26 58 14 230 4 10 15 149 December 31 29 49 13 215 10 10 37 108 Unknown 2 1 7 1 1 1 Av. Month 26 30 32 42 171 23 21 32 74 Under 5. 10 235 315 441 831 202 165 229 88 5 to 10 2 28 56 6 712 10 27 102 64 10 to 15 15 4 3 337 2 16 31 73 15 to 20 15 4 3 337 2 16 31 73 25 to 30 6 9 2 1 1 7 3 10 5 30 to 25 5 12 2 30 1 10 5 133 25 to 40 21 7 1 3 1 4 1 37 45 to 50 39 7 3 2 1 5 1 3 1 4 1 37 45 to 50 39 7 3 2 1 5 1 3 1 4 1 37 45 to 50 39 7 3 2 2 8 2 5 1 5 33 55 to 60 41 1 3 4 1 26 60 to 65 37 2 4 2 6 15 15 65 to 70 27 27 2 7 10 17		Unknown					3			1		
March		January	22	16	43		149	8	6	41	20	9
April		February	16	21	43	4	98	2	15	81	15	4
May		March	25	29	80	12	112	2	17	34	23	•
September 29 43 27 83 235 82 9 23 150		April	26	28	25	11	133		44	36	34	6
September 29 43 27 83 235 82 9 23 150		May	26	17	20	17	126	4	63	45	27	17
September 29 43 27 83 235 32 9 23 150	,	June	26	24	11	45	125	9	25	83	35	8
September 29 43 27 83 235 32 9 23 150	THE	July	30	81	14	105	155	81	21	35	45	8
September 29 43 27 83 235 32 9 23 150	OX	August	25	57	28	157	162	91	26	35	99	20
November 21 26 58 14 230 4 10 15 149 December 32 29 49 13 215 10 10 37 108 Unknown 2 1 7 1 1 1 1 Av. Month 26 30 32 42 171 23 21 32 74 Under 5 10 235 315 441 831 202 165 229 88 5 to 10 2 28 56 6 712 10 27 102 64 10 to 15 15 4 3 337 2 16 31 73 15 to 20 12 1 1 103 1 12 7 150 20 to 25 5 12 2 30 1 10 5 133 25 to 30 6 9 2 11 1 7 8 101 80 to 35 10 8 2 8 2 5 1 53 85 to 40 21 7 1 3 1 4 1 37 40 to 45 19 10 3 3 3 4 31 40 to 45 19 10 3 3 3 4 31 45 to 50 39 7 3 2 1 1 26 50 to 55 35 1 1 5 4 2 6 15 65 to 70 27 2 4 2 6 15	4	September	29	48	27	83	235	82	9	23	150	19
December 33 29 49 13 215 10 10 37 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 10		October	82	88	80	40	816	32	7	17	178	23
Unknown 2		November	21	26	58	14	230	4	10	15	149	13
Av. Monthc 26 30 82 42 171 23 21 32 74 Under 5		December	33	29	49	13	215	10	10	37	108	. 9
Under 5		Unknown		. 2	1		7		1	1	1	
5 to 10 2 28 56 6 712 10 27 102 64 10 to 15 15 4 3 837 2 16 31 73 15 to 20 12 1 1 103 1 12 7 150 20 to 25 5 12 2 30 1 10 5 133 25 to 30 6 9 2 11 1 7 3 101 30 to 35 10 8 2 8 2 5 1 53 85 to 40 21 7 1 3 1 4 1 37 1 3 3 3 4 31 1 26 1 26 1 26 1 26 1 26 <t< td=""><td></td><td>Av. Month</td><td>26</td><td>80</td><td>82</td><td>49</td><td>171</td><td>23</td><td>21</td><td>32</td><td>74</td><td>13</td></t<>		Av. Month	26	80	82	49	171	23	21	32	74	13
10 to 15		Under 5	10	235	815	441	831	202	365	229	88	137
15 to 20		5 to 10	2	28	56	6	712	10	27	102	64	5
20 to 25		10 to 15		15	4	3	837	2	16	31	73	
25 to 30		15 to 20		12	1	1	103	1	12	7	150	
SO to 35		20 to 25	5	12		2	30	1	10	5	133	
Sto 40 21 7 1 3 1 4 1 87		25 to 30	6	9		2	11	1	7	8	101	 -
40 to 45		30 to 35	10	8		2	8	2	5	1	58	
50 to 55 35 1 1 5 4 1 31 55 to 60 41 1 3 4 1 26 60 to 65 37 2 4 2 6 15 65 to 70 27 2 7 10 17		85 to 40	21	7		1	3	1	4	1	87	
50 to 55 35 1 1 5 4 1 31 55 to 60 41 1 3 4 1 26 60 to 65 37 2 4 2 6 15 65 to 70 27 2 7 10 17	E 8.	40 to 45	19	10		3	3	3	4		81	
55 to 60 41 1 3 4 1 26 60 to 65 37 2 4 2 6 15 65 to 70 27 2 7 10 17	A0	45 to 50	39	7		3	2	1		1	26	
60 to 65 37 2 4 2 6 15 15 5 to 70 27 2 7 10 17		50 to 55	33	1		1	5	4	1		31	
65 to 70 27 2 7 10 17 17		55 to 60	41	1		3		4	1		26	
		60 to 65	37	2		4	2	6			15	
70 - 75		65 to 70	27	2		7		10			17	
10 10 10 10 10 10 10 10 10 10 10 10 10 1		70 to 75	22	4		7	1	4	1		13	
75 to 80 15 1 9 9 7		75 to 80	15	1		y		9			7	
80 and ore 6 7 7 7		50 and over	•		·	6		7	 		7	
15 2 1 3 12							15	2	1	3	12	

^{*}Chronic. . Excluding unknown month.

TABLE XX.—Per Cent. of Deaths returned as having occurred in Michigan during the Year ending December 31, 1881, from each of Ten Specified Causes to Deaths from All Causes; and Per Cent. of each Sex, of Deaths in each Month, and at different Periods of Life to Total Deaths from each Specified Cause.

_				CAUSES	OF DEA	ги,—1881	PER C	ENT. OF	TOTAL.		
	EX, MONTHS, AND AGES.	Cancer.	Cepha- litis.	Croup.	Diar- rhea.	Diph- theria.	Dysen- tery.	Measles.	Scarlet Fever.	Typhoid Fever.	Whoop- ing Cough.
Рет	Ct. of All Causes	1.61	1.88	1.97	2.60	10.72	1.40	1.32	1.99	4.60	.74
	Males	86.13	53.19	60,16	57.49	49.93	51,85	46.46	48.56	55.54	49,30
SEX.	Females	63.97	46.81	89.84	42.51	49.93	48.15	58.54	51.18	44.46	50.70
S	Unknown					.15			.26		
	January	7.10	4.48	11.85		7,22	1.11	2.36	10.70	2.26	6.84
	February	5.16	5.82	11.85	.80	4.75	.74	5.91	8.09	1.70	2,82
	March	8,06	8.03	7.92	2.40	5.43	.74	6,69	8,88	2.60	4.23
	April	8.39	7.76	6.60	2,20	6.45		17.89	9.40	8.85	4.23
	May	8.39	4.71	5,28	3,39	6.11	1.48	24.80	11.75	3.05	11.97
_	June	8.89	6.65	2.90	8.98	6.06	3.33	9.84	8.61	3.96	5.63
JH &	July	9,68	8,59	3.69	20.96	7.51	11.48	8.27	9.14	5 09	5.63
MONTHS.	August	8.06	15.79	7.89	81,84	7.85	83.71	10,24	9.14	11.20	14.08
Ħ	September	9.35	11.91	7,12	16.57	11.39	80.87	8.54	6.01	16.97	13,38
	October	10.32	10.53	7.92	7.98	15,32	11.85	2.76	4,44	20.14	16.20
	November	6.77	7.20	15.80	2.79	11,15	1.48	3.94	8.92	16.85	9.15
	December	10,82	8.68	12,93	2.59	10.42	8,71	3.94	9.66	12.22	6.84
	Unknown		.55	.26		.34	 	.89	.26	.11	
	Av. Month	8.83	8.31	8,31	8.33	8.29	8.39	8,27	8.31	8,33	8,33
	Under 5	8.23	65, 10	83.11	88 02	40.28	74,82	64.96	59.79	9,95	96.48
	5 to 10	.64	7.76	14.78	1.20	84.51	8.71	10.63	26,63	7.24	3,52
	 10 to 15		4.15	1.06	.60	16.34	.74	6.30	8.09	8,26	
	15 to 20	<u> </u>	8,82	.26	.20	4.99	.87	4.72	1.83	16,97	
	20 to 25	1.61	3.32		.40	1.45	.87	8,94	1.32	15.05	
	 25 to 30	1,94	2.49		.40	.53	.37	2.76	.78	11.43	
	80 to 85	8.23	2.22		.40	.39	.74	1.97	.26	5.99	•••••
AGES.	85 to 40	6.77	1 1,94		.20	.15	.37	1.58	,26	4.18	
	40 to 45	6.13	2.77		.60	.15	1.11	1.58		3.51	
	45 to 50	12.58	1.94		.60	.10	.37		.26	2,94	
	50 to 55	11.29	.28		.20	.24	1.48	.39		8.51	*******
	55 to 60	13.23	.28		.60		1.48	.39		9.94	********
	60 to 65	11.93	.55		.80	.10	2.22			1.70	
	65 to 70	8.71	.55		1,40		8.71			1.92	
	70 to 75	7.10	1.11		1.39	.05	1.48	.89		1.47	
	75 to 80	4,84	.23		1.79		3.33			.79	
	80 and over	6.45	.55		1.20		2.59		•••••	.79	
	Unknown	.32	1.38	.79		.72	.74	.39	.78	1.36	
-	,		<u>. </u>	luding	leaths in	<u> </u>	<u> </u>	<u> </u>	1	1.50	

a Excluding deaths in unknown month.

Because of special interest attached to the study of them, ten particular causes of deaths are tabulated with reference to sex, months in which the deaths occurred, and to periods of age. Table XIX. shows the numbers in relation to these particulars; Table XX. the per cent. With the exception of cancer, measles, and whooping-cough, these diseases are especially studied in relation to meteorological conditions.

Cancer.—The total number of deaths from cancer returned in 1881, was 310. Of this number, 112 were males, and 198 were females. That greater mortality should be among females is due to sexual differences predisposing to this condition.

EXHIBIT S.—Deaths from Cancer Returned as having occurred in Michigan during the Year 1881, indicating part of body affected.

AS RETURNED.	Total.	Males.	Fe- males.	AS RETURNED.	Total.	Kalos,	Fe- males
Aggregate	810	112	198	Cancer, Internal	2	1	
Cancer of Stomach	79	46	33	Cancer of Bowels	6	1	
Cancer (Unspecified)	143	43	100	Cancer on Chest	1	i :	
Cancer of Womb	17		17	Cancer of Throat	2		
Cancer of Face	10	9	1	Cancerous Tumor	6	2	١.
Cancer of Liver	8	2	6	Cancer of Tongue	1	1	
Cancer of Eye	3	2	1	Cancer of Rectum	1		
Cancer on Breast	21		21	Cancer in Side	1		
Cancer on Mouth	5	2	3	Cancer of Mammary Gland	i		
Cancer of Lungs	2	1	1		_		

EXHIBIT Z .- Deaths in Michigan in 1881, Compiled as Unknown.

CAUSES AS RETURNED.	Males.	Fe- males.	Un- known.	CAUSES AS RETURNED.	Males.	Fe. males.	Un- known.
Total number compiled Un- known in Table XVII	851	772	9	Found dead	4		
Chronic disease	4 12	6		Afflicted eyes	1	9	
Female disease		4		Gall of the Stomach		1	
Complication of diseases	2 2	12		Stricture of Bladder	1 820	731	9
Bilious	1	1					1

Measles.—The per cent. of deaths from measles in 1881 among females was considerably greater than among males. The month in which there was the greatest per cent. of deaths from this disease was May, when nearly one-fourth of the deaths from this cause occurred. Nearly 65 per cent. of these deaths were among children under five years of age.

Whooping-cough.—The greatest number of deaths from whooping-cough occurred in October, August and September being next in order. The proportion of males and females was about equal. No deaths occurred from this cause among persons over ten years of age, 96.48 per cent. of the deaths being among children under five years of age.

METEOROLOGICAL CONDITIONS, AND THEIR RELATIONS TO DEATHS.

The study of meteorology in connection with the study of Vital Statistics has long been considered of great importance. The Registrar General, of England, instituted the important consideration of the meteorological conditions of England, as observed at Greenwich Observatory, in relation to deaths in England, as early as 1846.

For the State of Michigan, the observations made at Lansing were chosen to represent the meteorological characteristics of the State, and so far as the principal features are concerned, this has proved sufficient. Although the instumental records and calculations are not the same for each place, the monthly oscillations of the temperature, humidity, and of atmospheric pressure at Lansing are uniform with those at other stations.

EXHIBIT 10.—TEMPERATURE.—Average by Years and by Months, for the Years 1872 to 1881, inclusive, at the Agricultural College, near Lansing, Michigan. (Results of Observations by Prof. R. C. Kedzie.)

YEARS.	ANNU-	a	VERA	GE TE	MPER		STAT			EES F	AHRE	NHEIT,	,
	AVER-	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec
1872	45.54	21.59	21.34	24.75	47.39	58.48	71.82	74.91	7L22	62,03	47.44	29.80	15.7
1878	41.51	15,87	19.10	28.30	43.17	56.98	70,60	70,82	69.49	57.88	44,68	28.49	29.5
1874	47.82	27.70	25.51	32.30	86.87	59.58	70.61	72.02	69.89	62.85	49.10	85.00	26.9
1875	43.09	12.87	8.35	26.20	41.11	60.82	66.57	69.67	65.48	58.50	42.93	32,96	81.5
1876	46.17	30.22	27.38	30.55	44.16	57.95	68.14	72.48	71.55	56.30	43,74	36.33	15.9
1877	47.42	18.07	32.31	24.51	46.16	58.25	65.93	71,43	68.46	61.28	50.83	85,24	36.5
1878	48.29	29.11	28.07	40.90	50.55	54.57	64.08	73.04	70.15	63.15	48.33	36.29	21.2
1879	46.88	19.19	20.40	83.19	44.84	58.76	66.02	74.03	70.00	56.21	57.28	38.22	27.4
1880	47.28	87.10	29, 19	35,50	45.87	64.30	67,60	68.04	68.58	55.83	46.23	27.52	22.0
1881	48.78	16.98	21.58	30,28	45.59	65.24	64.31	78.43	72.69	69,69	52.51	38.20	34.3
Av. for 10 Yearsa	46.58	22.87	23.82	80.65	44.57	59.49	67.57	71,99	69.70	60.32	48.31	33.81	26.0

[■] Average for 10 years ending with 1881.

The annual average temperature for 1881 was 2.20° higher than the average for ten years, and higher than that of any year included in the average. With the exception of the years 1873 and 1875, the temperature for January, 1881, was lower than in any of the other ten years and considerably lower than the average. On the other hand the temperature of December was much higher than the average for the month. The temperature for the months of May and September was very much higher than the average, and higher than for the same month in any of the ten years included in the average.

EXHIBIT 11.—Absolute Humidity.—Grains of Vapor in a Cubic Foot of Air, by Months, for the Years 1872 to 1881, inclusive, at the Agricultural College, near Lansing, Michigan.

*****	ANNU-		0	BAINS	OF VA	POR IN	Cunic	FOOT	OF AI	r, by b	donth	8.	
YEARS.	AVER-	Jun.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1872	3.70	1.31	1.23	1.32	2,99	4.29	6.78	7.33	7.15	5.57	3,40	1.89	1.1
1873	3.36	1.14	1.43	1.52	2.71	4.00	5.85	6.45	6.29	4.50	2.92	1.73	1,8
1874	3,35	1.58	1.55	2.00	2.08	3.77	6.07	6.00	5.75	4.72	8.15	2.06	1.50
1875	3.11	0,92	0.73	1.63	2.12	3.74	5,17	5.91	5.22	4.38	2,57	1.84	2.0
1876	3,40	1.88	1.57	1.78	2.26	3.93	5,95	6.76	6.31	4.43	2.56	2.26	1.0
1877	3,45	1.19	1.85	1.53	2,47	3.79	5.32	5.76	5,74	4.82	8,59	2.93	2.3
1878	3,69	1.82	1.91	2.80	3.51	3.68	5.05	6.83	6.06	5.18	3.38	2.44	Le
1879	3.43	1.31	1,23	1.93	2.64	3,94	5,09	6.30	5.58	4.40	4.61	2.46	1.7
1880	3.71	2,22	1.92	1.97	3,02	5.02	6.03	6.20	6.32	4.98	3.31	1.93	1.5
1881	3.78	1.08	1.66	1,93	2,65	5.21	5.40	6.65	6.09	5.56	4.13	2.47	0.9
Av. for 10 y'rs. a	3,50	1.45	1.51	1.84	2.65	4.14	5.67	6.42	6.05	4.88	3.36	2 13	1.7

[.] Average for 10 years ending with 1881.

EXHIBIT 13.—PRESSURE OF THE ATMOSPHERE.—Observations of Barometer reduced to freezing point, and corrected for instrumental error (+.12) previous to 1875, for each of the years 1872 to 1881, inclusive, and the Average for 10 years ending with 1881, at the Agricultural College, near Lansing, Michigan. (Based upon Observations by Prof. R. C. Kedzie.)

19	ANNU-	1	PREASUR	E OF TH	E ATM	OSPHER)		D IN IN	CHES OF	MEEGI	TRIAL C	OLUMN,	
TEAES.	AVER-	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1872.	29,007	28,938	25,962	29,031	28,972	28,988	28,900	29,044	23,087	29.010	29,099	29.001	29,11
1928	28,994	28,803	28,967	28,972	28,918	28,946	25,960	22.034	19,047	29.048	29,037	28,953	29,04
1874	29,653	29,168	20,048	29.015	22,061	28,884	28,996	29,027	23,014	29,066	29.073	29.057	29,12
1875	25,705	29,008	28,873	28,844	29,047	29.061	28,023	20,044	29,025	99,001	29,016	29,054	28,950
1876	29,010	29,073	29,063	25,929	29,000	25,000	28,911	29,000	29,045	25,705	28,929	28,953	29,200
1877.,	29,000	29,937	29,104	28,881	28,974	29,038	29,020	29,062	29,045	25,121	29,077	29.059	29,180
1878	29,103	29,000	29,020	19,027	25,573	29,013	59,030	23.053	29,030	25,157	29,080	29,041	22,167
1879	29,080	20,170	29,107	20,700	25,600	29,03	29,673	29,057	29,100	23,332	29,160	29,027	29,033
1880	20,085	25,390	29,077	20,151	28,584	20,081	25,163,	35,800	20,100	21,692	22,130	29,235	29, 155
1881	29,067	29,077	29,132	25.800	25,084	20110	200	200	80.117	35,500	29.181	25,120	22,134
Aves	W6 043	ED 614	20,040	200	-	20.00				18.60	29,078	29.056	29, 309

a Average for 10 years senting with 244.

The atmospherio pressure of the average. The groin the month of March. October, the least

				֡												
1		ALPESTA, MICH.	Mrcn.			DETROIT, MICH.	MICH.		GR	Свано Натех, Міоп.	EX, M101	н.	M	Marquerte, Mich.	E, Mich	
.5, 1881, a.	Average Barome- ter.	Average Temper ature,— Fahr.	Total Rain- fall, in Inches	Prevail- ing Winds.	Average Barome- ter.	Average Temperature,— Fahr.	Total Rain- fall, in Inches.	Prevail- ing Winds.	Average Barome- ter.	Average Temper ature,— Fahr.	Total Rain- fall, in Inches.	Prevail- ing Winds.	Average Barome- ter.	Average Temper- ature,— Fahr.	Total Rain- fall, in Inches.	Prevail- ing Winds.
YBAR, 1981	20.352	42.33	45.61	N. W.	29.525	51.40	44.81	¥.	29.348	48.23	44.56	鹎	29.993	41.00	42.90	N. W.
January.	20.434	14.00	1.59	¥.	29.415	17.70	2.37	8. W.	29.426	19.80	2,29	S. Fi	29.346	10.10	1.60	₩.
February	29.455	15.90	20.0	છ જ	29.413	26.50	7.68	ĸi	29.410	23.20	6.13	<u>ਜ</u>	29.899	14.30	8:	N. W.
March	20.201	26.40	20.5	N. W.	29.120	34.20	88 24	₩.	29, 195	30.90	9.	R. W.	29.22	24.80	3.8	N. W.
April	29.328	84.80	æ	N. W.	29.278	44.90	2.33	N.W.	29.341	40.60	8.	S. W.	29.282	85.20	56.	N.W.
May	20.388	54.00	767	øż	29.338	64.70	2.45	Þ	29.330	62.40	1.19	N. K.	29.875	53.30	4.46	N. W.
Jane	29,300	26.30	8.23	X.W	29.221	65.30	2.80	ri Ei	29.269	63.00	8.37	Z.	29.22	55.10	8.47	N. W.
July	29.325	68. 10	8	N. W.	29.815	74.30	86 86	₩.	345.4g	71.30	4.78	#.	29, 256	69.00	67.6	₩.
August	29,384	66.40	3.03	8i 8i	29.335	74.00	1.32	Þį	29.346	71.00	1.91	ø;	29,288	68.00	88	×
September	20.319	62.40	8.16	સ	29.315	72.30	2.81	တ်	99.89	67.41	6.71	S.	29.185	67.60	12,71	8. W.
Oetober	29,425	20'97	10,35	Ä.	20.398	57.60	6.73	N. W.	29.410	62.50	7.87	Ħ	20.327	44.90	3.71	N. W.
November	29.316	88.80	8.00	Ä.	29.365	44.50	\$.87	øj	29.839	90.90	4.19	₩.	29.215	30.90	3,43	₩.
December	29.3.9	30.30	25.28	8. W.	29.373	40.30	4.17	တ်	29.398	36.90	8.77	σż	29.560	30.80	86.	N.W.
Average Month	29.352	42.33	3.80		29.325	51.40	8.73		29,848	48.23	8.71		29,282	41.00	3.58	

TMO6. 18 OF 2º F.)		.этияяэт братэт А	29.087	28.874	28.867	29, 105	28,088	22.935	28.876	29 .080	29.010	29.066	29.003	29.053
PRESCRIE OF ATMOS PRERE. INCHES OF MERCERY. (BEDUCED TO 32° F.)	r or	Average, Dally.		Ξ.	81 .	.137	.147	8:		23.	.138	89.	906.	.116
PRESSU PHERE M (BEDUC	RANGE OF BAROMETER.	Annuel.		1.307	1.802	1.648	1.997	2.069	1.306	1.280	1.860	1.530	1.628	1.976
nches.	I nì ,wor	is belted bine niedi	34.660	31.745	20.863	43.830	31.684	22.939	87.757	26.730	80.563	37.420	28.437	81.990
Milva per	daiw 10	Average Velocity of hour,—by Register	9.6		-	9.4	8.3	1		1,6	-	-	-	5.1
-RELA. R. = 10.	.K.A	7 от ж.ч 6—,1481У	4.66	4.63	4.24	3,63	4.01	3.99		3.36	4.11	55.33	5.04	6,40
OZONE,-RELA- TIVE. MAXIMUN = 10.	'R.	паў 7 л. и. то 9 р	4.00	4.02	88	4 05	3.76	4.10	-	3.24	3,68	3.00	4.53	3.50
FF OF		Weight, in Grains, por in Cubiq, boot	3.78	3.36	3,70	3.71	3,51	3.36	3,90	3,43	3.40	3.45	3.11	3.69
HUNIDITY OF ATMOSPHERE, ETC.— MONTHLY AVERAG'S.		Relative Humbits	2	8	22	52	6	18	18	92	8	8	78	62
4 h		1.48849AV	d 48.73	14.54	45.54	d 47,28	46.81	47.05	49,10	40.88	4 46.17	47.42	43.09	48,20
TEMPERATTER, FABE, MEAN OF 5 DAILY ORNERVATIONS, 7 A. M. 27. M., AND 9 P. M.	Ang or,	From Day to Day.	-	17.67	18.14	16,39	17,65	18.97	19,03	17.24	16.33	17.53	17.03	16.05
TRMPER MEA ORIERY 27.3	AVERAGE HANGE.	Dally	20.52	11.37	15,31	13.54	15.47	15.65	17.11	14,87	13.60	15.12	15.34	13.63
DESTRO	of edite.	Pve Cent. of Deal Estimated Inhabit	1.14	1.00	1.06	86	36	.93	14.	16.	.87	.87	98'	.83
DEATHS		Умитрет.	19,238	14,27.9	12,371	16,102	13,385	12,500	10,766	14,407	12,576	12,919	11,930	12,766
	*,e144	11/ledal Loremite Z	0,000,000,1	1,3/15,006	1,265,514	1,676,937	1,123,964	1,349,047	1,184,281	1,544,956	1,439,235	1,435,567	1,392,411	1,534,457
Asses 1974-1994 (N. OLIONA ST.	Gertier Experies	Canaver Diani.	The same of the same	- Chillippinson	можение		The same definitions	The Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Co	- minimum	D systematical and		Management on the same	(Base	M78

a Population satiusted from Censuses of 1870 and 1880. Bee foot-notes to Exhibit K, page 256. From observations at the office of the State Board of and the state of an experience to the proposition that the temperature was transfer than the average in years in which the death-rate was greater than the average,

EXHIBIT 14.—All Causes.—Dealhs Returned as having occurred in Michigan from All Causes, by Months, during the Year 1881, and some coincident Meteorological conditions at the Office of the State Board of Health, at Lansing.

PRESSURE OF ATMOS- PHERE.—INCHES OF MERCURY. (Reduced to 32° F.)	<u> </u>	Average, Daily.	.186 20.017	. 150 6 25,1999	.106 29.003	.206 23,080	.215 29.056	.080	.279 29.037	.186 29.017	.116 6 29.038	.149 28.978	.914 28,821	.154 28.940	.302 6 29.071	.248 8 29.077	
Press	RANGE OF BAROMETER	Monthly, and Year.	1.46	3	112	23	.947	.627	30.1	.843	707.	717.	1.017	139	1.330	1.202.	
gnow, in	delted nches.	l bas atsN	85.28	8.24	9.8	• 5.60	1.76	3.63	4.39	2.94	2.97	. 1.65	. 2.14	2 63	8.95	. 2.27	
-ph Regis	-tanoH	Average V Miles per tering An	9.6	10.3	7.0	8.7	11.2	8.1	14.6	9.6	8.4	9.6	10.4	8.4	11.0	7.3	
RELA. E. M=10.	ој.к	N.A. T	4.66	3.57	8.53	3.52	3.77	4.10	f 5.30	4.66	1 4.26	6.07	6.00	4.80	5.54	5.45	
OZONE,-RELA- TIVE. MAXIMUM=10.	2 01 .1	Day,—7 A. Y. A. Y. A. Y. A. Y. A. Y. A.	4.00	1 4.12	1 4.45	2.77	3,39	1 4.45	3.87	4.00	r 3.94	4.50	4.52	f 3.73	1 3.75	4.52	
Humiditt Atmosphere, 2.—Monthly Averages.	n Cu-	Ont, the Bart in Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the Grant of the G	3.54	5,59	5.80	3.94	6 10	6.09	2.37	3.51	4.84	2.69	1.76	5.07	1.40	1.08	
Humidity of Atmosphere, ETC.,—Monthly Averages.	Cent.	Relative Haily or Per of Saturat	8	3	일	22	52	25	72	6	61	79	38	19	8	8	
E, DE.	Ju su	Average of Observation 7 A. M., 2 and 9 P. M.	49.59	71.33	74.63	53.63	d 35.28	75,41	d 38.78	49.59	4 66.94	43.23	30.39	d 65,99	92.97	16.98	
TEMPERATURE, I GREES, -FAHB.	Night tering o. Ob-	Therm'ter	19.81	99.53	24.48	19.84	a 12,55	23,33	c 15.57	19,61	c 24.10	0 21.33	14.68	c 2),43	19.61	18.65	
1881.	127.71	Ппкпожп.	00.00	6.15	15,38	1,54	15.38	13.85	7.69	8.33	23	-	4.62	7.69	10.77	7.69	
REPORTED FROM ALL CAUSES,	PER CENT. OF TOTAL.	Females.	100.00	12.06	11.68	10.61	9.13	8.68	8.07	8.8 3.	8.04	7.03	6.53	6.78	6.73	5.75	
NLE C.	CENT.	Males.	100.00	11.99	11.72	9.75	9.07	9.01	8.76	8.33	7.21	7.85	7.16	6.58	5.50	5.40	
ROM	PER	Total.	100.00	12.00	11.72	10.12	9.12	8.87	8.43	8.33	7.60	7.41	6.86	6.66	5.62	5.56	
TED F	<u> </u>	<u> </u>	Unknown.	8	-	2	_	2	8	•	•	8	•	20	·c	7	•
RPORT	UMBER.	Females.	188°×	1,0,1	1,038	943	811	Ξ	717	740	714	624	2	885	200	38	
10	Num	Malcs.	10,223	1,236	۲,		937		88	852	737	803	733	673	8	55	
DEATH		.latoT	19,172	2,301	2,246	1,941	1,748	1,701	1,617	1,598	1,457	1,427	1,315	1,276	1,078	3,065	
MONTES IN ORDER BY	NUMBER OF REPORTED DEATHS FROM	ALL CAUSES, GREATEST FIRST.	YEAR, 1881b	Sept	August	October	Dec	July	Nov	Average	May	April	March	Juno	Feb	Jan	

a socioot-notes to Eximit h, page 23. B. Excussing Destinal untum mouth. Exceptions to tup proposition when the average of the proposition of a exceptions of the proposition that the Average in months when more than the average number of deaths occurred, and vice versa.

Sixton that the Average Districture was greater than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Afain-fall was less than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Ozone was less than the average in months whon more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Atmospheric Pressure, as indicated by the Barometer, was greater than the average in months when any average number of deaths occurred, and appropriate than the average in months when

Croup.-During the year 378 deaths were returned as having occurred from croup. Of this number the largest proportion occurred in the months of November, December, January, and February. Exhibit K shows the relation of certain meteorological data to deaths from croup, and is constructed with regard to propositions given in the foot-notes. This exhibit resembles, in its construction and relations, that of several succeeding exhibits.

EXHIBIT K .- Croup .- Deaths Returned as having occurred in Michigan from Croup, by Months, during the Year 1881, and some coincident Meteorological conditions.

	Managara	CH	ATHS ROM ROUP, 881.	TRMI TUR DEGR	PERA- R,— EES F.		E, ETC	of An		Ozor Rela Maxis	TIVE.	er Hour,-		(Baromete
DE	MONTUS CORDER BY CUMBER OF EATHS FROM CROUP, GREATEST FIRST.	Number.	Per Cent. of Total.	Average Dally Range during Day and following Night by Registering Therm'r. Observed at 7 A. M.	Average of Dally Observations, at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent.	Weight, in Grains, of Vapor in Cu- hic Foot of Air.	Weight, in Troy Ounces, of Vapor inhaled by one person in 24 hours,b	Weight, in Troy Ounces, of Vapor exhaled from Mr passages in 24 hours, in excess of vapor inhaled.	Day,-7 A. M. to 2 F. M.	Night,-0 P. M. to 7 A. M.	Average Velocity of Wind, Miles per by Registering Anemometer.	Rain-fall, in Inches.	Average Pressure of Atmosphere. (Barometer Reduced to 32" Fahrenhelt.)
rea:	r, 1881	4378	100.00	19.84	49,59	70	3.51	2.21	9.47	4.00	4.66	9.6	35.28	29.01
hs.	November	58	15.34	15.57	33,78	74	2 37	1.48	10,20	3 87	5.30	14.6	4,39	29.03
No. of Deaths.	December	49	12.96	12 55	35.28	75	2,10	1.31	10.37	3,39	8.77	11.2	1.76	29,05
of	January	43	11.38	18,65	15,98	81	1.05	.68	11,00	4.52	5.45	7.3	2.27	29.07
No.	February	43	11.38	19,61	22.27	80	1.40	.88	10.80	3,75	5.54	11.0	3,92	29.07
Lve:	rage	32	8,33	19,84	49,59	70	3.54	. 2,21	9,47	4.00	4.66	9.6	2,94	29,01
1	March	30	7.94	= 14.6S	e 30.59	78	3.76	f 1.10	10.58	4.52	6.00	10.4	2.14	28.85
	October	30	7 94	19,84	53,68	73	3,94	2.46	9,22	2,77	3.53	8.7	5,60	29,08
Deaths.	August	28	7.41	24.48	74,63	62	5.80	3,63	8,05	4.45	3,53	7.0	2.05	29.00
Deaths.	September	27	7.14	22.53	71.33	65	5,59	3,40	8.19	4.12	3,57	10.3	3,24	28 9
	April	25	6,61	21.33	· 43.23	64	2.49	1 1.56	10.12	4.50	6,07	9,8	1,65	28,97
No. of	May	20	5.29	24.10	66.94	61	4.81	3,03	8,63	3,94	4.26	8.4	2.97	29,00
	July	14	3,70	23 32	75,41	62	6.08	3,80	7,88	4.45	4.10	8.1	1.63	29,03
	Juno	11	2,91	21.43	65.99	67	5,07	7.17	8.51	3.73	4.80	8.4	3.66	28.96

^{*} Calculated from readings of Dry Bulb and W

2 Calculated for 18 respirations per minute, of 2

4 Assuming the air exhaled to be saturated with the containing 18.00 grains, 18 respirations per manual per manual statement of the containing 18.00 grains, 18 respirations per manual transmission of the containing 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains, 18.00 grains

Croup and Diphtheria.—These two diseases are thus grouped together, as well as exhibited separately, for their more thorough study, and because they are considered by many to have pathological features that are identical.

Exhibit L shows the order of monthly mortality to be different than with reference to croup alone, the greatest number of deaths occurring in October, November, December, and September.

EXHIBIT L.—CROUP AND DIPHTHERIA.—Deaths Returned as having occurred in Michigan from Croup and Diphtheria, by Months, during the year 1881, and some coincident Meteorological conditions.

Mo	NTHS IN	DIPRT	PAND PAND PHESIA, 81.	TEMPER DEGRE FAI	ES,-	1000	PHER	r of A e, Etc y Ave		OZON RELA MAXI	MUM.	Ind, Miles per Anemometer,	Atmosphere. to 32° Fahr.)
PRO AND D	THE BY NUM- DE DEATHS OM CROUP PRITHERIA, DEATEST FIRST.	Number.	Per Ceut, of Total.	Average Dally Range dur- ring Day and following Night by Reg. Therm'trs. Observed at 7 A. M.	Average of Dally Observa- tions at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent. of Saturation.	Weight, in Grains, of Vapor in Cubic Foot of Air.s	Weight, in Troy Ounces, of Vapor Inhaled by one person in 24 hours, a	Weight, in Troy Ounces, of Vapor Exhaled from Air passages in 24 hours, in excess of vapor inhaled.	Day, -7 A. M. to 2 P. M.	Night,-9 P. M. to 7 A. M.	Average Velocity of Wind, 1 Hour, -by Registering Aner	Average Pressure of Atm (Barometer Reduced to 32)
Year,	1881	ь 2,370	100.00	19.84	49, 59	70	3,54	2,21	9,47	4.00	4.66	9.6	29,017
о	Oct	387	14.22	19.84	c 53.63	75	3 94	4 2,46	9.22	2.77	3.52	8.7	29,089
an t	Nov	276	11.65	15.57	38.78	74	2.37	1.48	10,20	3,87	5.30	14.6	29,037
More than the Average No. of Deaths.	Dec	259	10.93	12.55	35.28	75	2,10	1.31	10.37	3.39	3.77	11.2	29,056
AA	Sept	257	10,54	22.53	c 71,33	65	5.59	4 3.49	8.19	4.12	3.57	10.3	28,999
Avera	ge	198	8.33	19,84	49,59	70	3.54	2.21	9,47	4.00	4.66	9,6	29,017
	[Aug	190	8,02	24.48	74.63	62	5.80	8.63	8.05	4.45	3,53	7.0	29,063
No	Jan	183	7.72	18.65	c 16.98	81	1.08	a .68	11.00	4.52	5.45	7.3	29.077
rage.	July	169	7.13	23.32	75.41	62	6.08	3,80	7.88	4.45	4.10	8.1	29,035
Ave iths	April	151	6.37	21 33	e 43.23	64	2 49	4 1.56	10.12	4.50	6.07	9.8	28,978
Des	May	142	5.99	24.10	66.94	61	. 4.84	3.03	8.65	3,94	4.26	. 8.4	29.038
Less than the Average No. of Deaths.	March	138	5,82	14.68	c 20.59	78	1.76	4 1.10	10.58	4 52	6.00	10.4	28.821
889	Feb	134	5.65	19.61	c 22.27	80	1.40	4 ,88	10,80	3.75	5.54	11.0	29.071
H	June	134	5,65	21.43	65 99	67	5.07	3.17	8.51	3.78	4.80	8,4	28,940

a See foot-notes to Exhibit K, page 256.

b Excluding 8 deaths in unknown Month.

e Exceptions to the proposition that more than an average number of deaths from Croup and Diphtheria occurred in months in which the Mean Temperature was less than the average, and wice werea.

d Exceptions to the proposition that more than an average number of deaths from Croup and Diphtheria occurred in months in which there was less than the average quantity of vapor inhaled, and vice werea.

EXHIBIT M .- DIPHTHERIA .- Deaths Returned as having occurred in Michigan from Diphtheria, by Months, during the Year 1881, and some coincident Meteorological conditions.

:	Montus	DEA FR DIPUT, 18	OM HERIA,	TEMPER DEGR FAI	ERS		TMOSP	CIDITY HERE, E	TC.,-	OZON RELA MAXI	TIVE.	Miles per mometer.	Atmosphere. to 32° Fah.
DE. Dt	ORDER BY UMBER OF ATHS FROM PHTHERIA, REATEST FIRST.	Number.	Per Cent, of Total.	Average Daily Range dur- ing Day and following Night by Reg. Thermome- ters. Observed at 7 A. M.	Average of Dally Observa- tions at 7 a. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent. of Saturation.	Weight, in Grains, of Vapor in Cubic Poot of Air. a	Weight, in Troy Ounces, of Vapor Inhaled by one per- son in 24 hours.	Weight, in Troy Gunces, of Vapor Exhaled from Air passages in 24 hours, in excess of vapor inhaled,	Day,-7 A. M. to 2 P. M.	Night, -9 P. M. to 7 A. M.	Average Velocity of Wind, Miles polifour, by Registering Anemometer.	Average Pressure of Atmos (Barometer Reduced to 32° renbeit.)
Year	r, 1881	2,056	100.00	19,84	49,59	70	3.54	2.21	9.47	4.00	4.66	9.6	29.017
	October	316	15.37	19.84	s 53.63	75	3.94	42.46	9,22	2,77	3.52	8.7	29.08
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	September.	233	11.43	22,53	c 71.33	63	5.59	4 3,49	8, 19	4.12	3.57	10,3	25,995
More than Av. No. of Deaths.	November_	230	11.18	15.57	28.78	74	2.37	1.48	10.90	3.87	5,30	14.6	29.037
N N	December .	215	10,46	12.55	35.28	75	2 10	131	10.37	3,39	3.77	11.2	29,050
Ave	mge	171	8.33	19.84	49.59	70	3,54	2,21	9.47	4.00	4.66	9,6	29,017
	August	162	7.88	21.48	74,63	62	5,30	3,63	8.05	4.45	3.53	7.0	29,063
• •	July	155	7.54	527.25	73,41	-63	6.08	2.80	7.88	445	4.10	8.1	29,035
	January	J ta	7.25	18.65	16,98	ંકો	1.08	4 .64	11.00	4.52	5.45	7.8	29.077
3	April	133	6.47	3F22	· 43.23	64;	2 49	4 1.56	10 12	4.50	6.07	9.8	28,978
Mumber of Deaths.	Жау	126	€ 13	5F 30.	66,91	61	4.84	2.03	8 65	3.94	4.26	8.4	29.038
	June	123	i,ne	21.43	67.39	67	5.07	2.17	8 51	2.73	4.80	8.4	28.940
<u> </u>	March	112	2.42	11.00	< 30.59	73	1,76	4 1 10	10.58	4.52	6.00	10,4	28,821
i	February	. 9 c i	4.76	19.61	. 22.27	80	1.40	4 .83	10.80	3.73	5.54	11.0	29,071

<sup>See foot notes to Exhibit K, page 256.
Excluding 7 in unknown month.
Exceptions to the proposition that more than an average number of deaths from Diphtheris occurred in months when the mean temperature was less than the average, and vice versa.
Exceptions to the proposition that more than an average number of deaths from Diphtheris eccurred in months when less than the average quantity of vapor was inhaled, and vice versa.</sup>

Diphtheria.—The great prevalence of diphtheria in 1881 has been previously spoken of. The number of deaths per month was greater than the average in the months of October, September November, and December. The number of deaths from diphtheria occurring in January, February and March, when the temperature was comparatively low, compared with the number of deaths occurring in October and September, when the temperature was so much above the average, does not altogether support a prevailing idea that the disease is a cold weather disease.

Deaths from Diphtheria, by Counties, for each of the Years 1876-1881.

STATE AND COUNTIES.	1881.	1880.	1879.	1878.	1877.	1876.
STATE	2,063	1,542	1,473	887	593	\$11
Alcona	3	3	3	3		
Allegan	36	11	20	29	1	4
Alpena	3					
Antrim	9	-3	11	10	10	
Baraga						
Barry	62	12	8	17	19	15
Вау	112	40	41	16	12	, 13
Benzie	1	2	4	[
Berrien	7	31	70	27	6	5
Branch	4	10	33	16	21	25
Calhoun	13	8	40	10	36	15
Cass		9	47	47	4	6
Charlevoix	1		1		1	
Cheboygan	10	3	1	20	8	
Chippewa		2				
Clare	13	42	. 2			
Clinton	49	19	15	52	2	5
Crawford	5		1			
Delta	10	6	 		. 1	1
Eaton	36	18	30	47	12	23
Emmet	10	1	3		 	l
Genesee	56	33	17	17	29	
Gladwin	 		7			
Grand Traverse	18	6	2	6	25	1
Gratiot	23	31	31	18	21	1
Hillsdale	29	14	32	19	10	12
Houghton	3			1		l
Huron	15	7	8	10	4	
Ingham	29	14	56	9	2	
*mia	42	11	16	14	9	ł .

Deaths from Diphtheria.—Continued.

COUNTIES.	1881.	1880.	1879.	1878.	1877.	1876.
Iosco	57	1	4	2	1	6
Isabella	41	56	23	1		
Isle Royal	} }					
Jackson	26	5	26	84	58	5
Kalamazoo	77	13	22	17	20	13
Kalkaska	7	1	1		 	
Kent	180	194	171	61	74	18
Kewecnaw	4					
Lake	14	3	2	l		
Lapcer	19	6	42	7	11	
Leelanaw	10	13	l			
Lenawee	12	17	10	12	25	9
Livingston	17	19	23	5	2	
Mackinac				1		
Macomb	25	8	19	17	8	2
Manistee	4	2	4	,		
Manitou						
Marquette	19	7	5	10		9
Mason	83	31	14	~	1	•
Mecosta	134	60	18	2	1	••••
Menominee	1	1		-	•	
Midland	10	28	5	8	2	
Missankec	1			,	-	
Monroe	12	20	14	17	8	5
Montcalm	69	80	11	6	8	,
Montmorency.		~	11	°	°	
	47	43	37		2	9
Muskegon	41	60	. 8			-
Newaygo	13	7	ł	5	8	5
Oakiand	27	13	21	20 1	15	-
Oceana	27	13	13	'		1
Ogemaw						2
Ontonagon	j					
Osceola	9	60	23			
Oscoda	2					••••
Otsego	2	1	2	2		•••••
Ottawa	33	15	44	3	6	
Presque Isle	3					
Roscommon		2	2		•	•••••
Saginaw	103	148	157	52	19	13
Sanilac	23	8	10	12	17	6

Deaths from Diphtheria.—Continued.

COUNTIES.	1881.	1880.	1879.	1878.	1877.	1876.
Schoolcraft						
Shiawassee	12	13	8	11	1	1
St. Clair	39	43	7	22	13	15
St. Joseph	12	13	28	13	5	5
Tuscola	ss	41	46	5	5	4
Van Buren	29	4	11	7	4	2
Washtenaw	16	. 9	10	4	1	2
Wayne	136	137	128	67	55	56
Wexford	9	24	6	20		
No. of Counties	63	62	61.	52	46	35

EXHIBIT V.—UEREBRO-SPINAL MENINGITIS, Etc.—The Total Number of Deaths from Cerebro-spinal Meningitis, Spotted Fever, Spinal Meningitis, Meningitis, and Spinal Fever, Returned as having occurred in Michigan during the Year 1881, by Months, and by Sex.

CAUSES	_					•	м	онтн	s, 188	3 1.				
OF DEATH.	SEX.	YEAR,	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
	Total	330	13	20	24	89	42	24	30	42	26	30	21	19
Total	Males	191	6	10	12	27	23	15	20	25	19	12	12	8
	Fema's	139	7	10	12	12	17	9	10	17	7	18	9	11
Cerebro-	Total	41	2	6	3	4	5	1	6	5	1	2	3	2
spinal Meningitis	Males	28		4	3	3	3	1	5	2	1	1	3	2
WentnRies	Fema's	13	2	2	 -	1	2		1	3		1		1
Spotted	Total	9	1			오.		1		3		1		1
Fever	Males	5				2		•=		2				3
	Fema's	4	1					1		1		1	•	
	Total	123	4	7	9	19	17	10	7	16	8	13	7	6
Spinal Meningitie	Males	76	3	2	6	14	11	9	4	10	7	4	4	2
	Fema's	47	1	5	8	5	6	1	3	6	1	9	3	ų
	Total	21	1	. 8	1	8	1	1	4	1	4		1	
Meningitie	Males_	10	1	1		2	1		1	1	2			1
	Fema's	11		2	1	1		1	3		2		1	
Soinal Fa.	Total	136	5	4	11	11	19	11	13	17	13	14	10	
***************************************	Males_	72	2	8	3	6	10	5	10	10	9	7	5	2
	Fema's	64	3	1	8	5	9	6	8	7	4	7	5	6

Cerebro-spinal Meningitis.—The number of deaths from this and allied causes, returned in 1881, was 330, the greatest fatality being in the months of May and August, and the least in January. Of the cause distinctly denominated as cerebro-spinal meningitis, there were 41 deaths; of spinal meningitis, there were 123; of spinal fever, 136; of meningitis, 21; and of spotted fever, 9. Some meteorological conditions in connection with this disease may be studied in Exhibit 15.

EXHIBIT 15.—CEREBRO-SPINAL MENINGITIS, ETC.—Deaths Returned as having occurred in Michigan from Cerebro-spinal Meningitis, Spotted Fever, Spinal Meningitis, Meningitis, and Spinal Fever, by Months, during the Year 1881, and some coincident Meteorological conditions.

ER BY NUM.	MENINGILIS, MENINGITIS, VER, GREAT-	Deaths Cere Spinal ingitis	Men-	Temper Degre Fah	es, —	Humic Atmos Etc Mon Aver	phere,	Ozor Rela Maxi =	tive.	ind, Miles	in Inches.	phere	. Inc	Atmos- ches of y. 32° F.)
ORDER J	> 53		1.	Range nd fol- oy Reg. 7 A. M.	y Ob-	ty, or tura-	Foot	Р. Ж.	7 A.M.	Registe	Snow,	Rang		ě.
BER OF DEATHS, FROM	SPOTTED FE MENINGITIS, AND SPINAL F EST FIRST.	Number.	Per Cent. of Total.	Average Dally Range during Day and following Night by Reg. Ther. Obs. at 7 A. M.	Average of Dally servations at 7 A. 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent, of Satura- tion.	Weight, in Grains, of Vapor in Cubic Foot of Air.a	Day,-7 A. M. to 2	Night,-9 r. m. to 7	Average Velocity of Wind, per Hour,—by Registering mometer.	Rain and Melted Snow, in Inches.	Monthly, and Year.	Average, Dally.	Average Pressure.
Year	r, 1881	330	100.00	19.84	49,59	70	3.51	4.00	4.66	9,6	35.28	1.402	.186	29.017
	May	42	12,78	24.10	66.94	61	4.84	3,94	4.26	8.4	2,97	.707	.116	g 29.038
More than the Av. No. of Deaths.	Aug.	42	12.73	24.48	74.63	62	5.80	1 4.45	3.53	7.0	2.05	.577	.106	g 29.06
Det	April	39	11.82	21.33	e 43.23	64	€ 2,49	f 4.50	f 6.07	9,8	1.65	.717	.149	28,97
o.of	July	30	9.09	23.32	75.41	62	6,08	f 4.45	4.10	8.1	1.63	.527	.089	g 29,03
Non	Oct	30	9.09	19,84	53,63	d 75	3.94	2.77	3.52	8.7	5.60	.828	.206	g 29,08
Ave	rage	28	8 33	19.84	49,59	70	3.54	4.00	4.66	9,6	2.94	.843	.186	29.01
	Sept	26	7,88	ь 22.53	e71.33	d 85	e 5.59	4.12	f 3.57	10.3	3.24	.654	.150	g 28,990
No.	March.	24	7.27	14.68	30,59	78	1.76	4.52	6.00	10.4	2,14	1.017	.214	g 28,82
Ay.	June	24	7.27	ь 21.43	e65.99	d 67	e 5.07	f 3.73	4.80	8.4	3,66	.541	.154	g 28.940
Deat	Nov	21	6.36	15.57	38.78	74	2.37	f 3,87	5.30	14.6	4.39	1.069	.279	29.03
of 1	Feb	20	6,06	19.61	22,27	80	1.40	f 3.75	5.54	11.0	3,92	1.326	.302	29.07
Less than the Av. of Deaths.	Dec	19	5,76	12.55	35,28	75	2.10	f 3,39	f 3.77	11.2	1.76	.947	.215	29,050
1	Jan	13	3,94	18.65	16,98	81	1.08	4.52	5.45	7.3	2,27	1.202	.248	29,077

a See foot-notes to Exhibit K, page 256.
b Exceptions to the proposition that the Average Daily Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.
c Exceptions to the proposition that the Average Temperature was higher than the average in months when more than the average number of deaths occurred, and vice versa.
d Exceptions to the proposition that the Relative Humidity was less than the average in months when more than the average number of deaths occurred, and vice versa.
e Exceptions to the proposition that the Absolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa.
f Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa.
Exceptions to the proposition that the Almosoherie Pressure indicated by the barometer, was

s Exceptions to the proposition that the Atmospheric Pressure indicated by the barometer, was less than the average in months when more than the average number of deaths occurred, and vice versa.

Cephalitis.—There were 359 deaths in Michigan in 1881 from cephalitis. The greatest proportion of this number occurred in the month of August, and it is not improbable that a considerable number were due to complete or partial sunstroke in the preceding month. It will be seen that only a very small number of deaths from this cause occurred in the cold months.

EXHIBIT 22.—Cephalitis.—Deaths Returned as having occurred in Michigan, from Cephalitis, by Months, during the Year 1881, and some coincident Meteorological conditions.

	Montus	Cepl	aths om unlitis,	Temp ture Degr Fal	ees				osphere, rerages.	Ozor Rela Maxi	tive.	nd, Miles per Anemometer.		phere.
DEA CE	ORDER BY TMBER OF ATHS FROM PHALITIS, RNATEST FIRST.	Number.	Per Cent, of Total.	Average Dally Range dur- ing Day and following Night, by Reg. Thermom- eters. Observed at 7 a. M.	Average of Daily Observa- tions at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent, of Saturation.	Weight, in Grains, of Va- por in Cubic Foot of Air.a	Weight, in Troy Ounces, of Vapor inhaled by one per- son in 24 hours.a	Weight, in Troy Ounces, of Vapor exhaled from Air passages in 24 hours, in excess of vapor inhaled.a.	Day,- 7 A. M. to 2 P. M.	Night, -9 F. M. to 7 A. M.	Average Velocity of Wind, Hour,-by Registering And	Rain-fall, in Inches.	Average Pressure of Atmosphere. (Barometer Reduced to 32° Fahr.)
Year	r, 1881	*359	100.00	19,94	49.59	70	3.54	2.21	9,47	4,00	4,66	9,6	35.28	29.017
pr.	August	57	15.88	24.48	74.63	62	5.80	2,63	8.05	1 4.45	3.53	7.0	2.05	29.063
No. of Deaths.	September	43	11.98	22,53	71.33	65	5,59	3.49	' 8, 19	14,12	3,57	10.3	3.24	28,999
of	October	38	10.58	19.84	53.63	4 75	3,94	2.45	9,22	2.77	3 52	8.7	5,60	29.089
No.	July	31	8.63	23,32	75.41	62	6.08	3,80	7.88	f 4.45	4,10	8,1	1.63	29,035
Ave	rage	30	8,33	19.84	49.59	70	3,54	2.21	9,47	4.00	4.66	0.6	2.94	29.017
1	March	29	8.08	14.68	30.59	78	1,76	1.10	10.58	4.52	6.00	10.4	2.14	28.821
	December.	29	8,08	12.55	35.28	75	2.10	1.31	10.37	f 3.39	f 3.77	11.2	1.76	29.056
ath	April	28	7.80	ь 21.33	43.23	d 64	2,49	1.56	10,12	4.50	6.07	9.8	1.65	28,978
r De	November	26	7,24	15.57	38.78	74	2.37	1.48	10,20	f 3.87	5.30	14.6	4.39	29.037
er o	Jane	24	6.69	ь 21.43	e 65,99	a 67	e 5.07	3,17	8.51	1 3.73	4.80	8.4	3.66	28,940
Less than the Av.	February.	21	5.85	19.61	22,27	80	1,40	.88	10,80	1 3.75	5,54	11.0	3.92	29,071
"Z	May	17	4.73	ь 24.10	€ 66,94	d 61	• 4.84	3.03	8.65	13.94	4.26	8,4	-2.97	29,038
-	January	16	4.46	18.65	16.98	81	1.08	.68	11.00	4.52	5.45	7,3	2.27	29,077

^{*} Excluding 2 deaths in unknown month.

* See foot-notes to Exhibit K, page 256.

b Exceptions to the proposition that the Daily Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

c Exceptions to the proposition that the Daily Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

d Exceptions to the proposition that the Relative Humidity was less than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Absolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa.

I Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa.

Congestive Chills .- Eighty deaths were returned as having occurred from this cause in 1881, August and September being the months of greatest mortality. Very few deaths from this cause occurred in the colder months.

EXHIBIT U .- Congestive Chills .- Deaths Returned as having occurred in Michigan from Congestive Chills, by Months, during the Year 1881, and some coincident Meteorological conditions.

100	NTHS	from ge: Ch	aths n Con- stive dils, 881.	Degre	rature, ees,— hr.	Hum	Etc.,-	Month rages.	sphere,	ative.	,—Rel- Max- i=10.	er Hour,—		phere.	Inche cury. uced to	s of Me
BY BE	RDER NUM- ROF			e during Day, by Register-	tions at	Cent. of	r in Cu-	f Vapor	of Vapor ges in 24 inhaled a			Wind, Miles per ometer,	Inches.	Rang	ge of neter.	
CII GRE	ATHS ROM NGES- IVE ILLS, ATEST RST.	Number.	Per Cent. of Total.	Average Daily Range during and following Night, by Regi- ing Therm'ter. Observed at 7	Average of Dally Observations 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent. of Saturation.	Weight, in Grains, of Vapor in bic Foot of Air.a	Weight, in Troy Ounces, of Inhaled by one person hours.a	Weight, in Troy Ounces, of Vapor exhaled from Air passages in 24 hours, in excess of vapor inhaled s	Day,-7 A. M. to 2 P. M.	Night,-9 r. M. tg 7 A. M.	Average Velocity of Wind, M by Registering Anemometer,	Rain and Melted Snow, in Inches.	Monthly, and Year.	Average, Dally.	Average Pressure.
ear	, 1881.	*80	100.00	19.84	49.59	70	3.34	2.21	9.47	4.00	4.66	9,6	35.28	1.402	.186	29,0
. 1	Aug	13	16.25	24.48	74 63	62	5.80	3.63	8.05	× 4.45	3.53	7.0	2.05	1,577	g.106	29.0
No. of Deaths.	Sept	11	13,75	22.53	71.33	65	5,59	3.49	8,19	e 4.12	3.57	10.3	3.24	1.654	g .150	a 28,9
Dear	Oct	9	11.25	19.84	53,63	75	3.91	2.46	9,22	2.77	3.52	8.7	5.60	1.828	,206	29.0
10.	Mar	7	8.75	b 14.63	c 30.59	. 78	4 1,76	1.10	10.58	* 4.52	e 6.00	10.4	2.14	1.017	.214	h 28.8
No	May.	7	8.75	24.10	66.94	61	4.84	3.03	8.65	3.94	4.26	8,4	2.97	1.707	g.116	2).0
	July -	7	8.75	23,32	75.41	62	6,08	3.80	7.88	e 4.45	4.10	8.1	1.63	1.527	€ .089	29.0
ver	age	6.7	8,33	19.84	49,59	70	3,54	2.21	9.47	4.00	4.66	9,6	2.94	.813	.186	29.0
	June.	6	7.50	b 21.43	c 65,09	67	4 5.07	3.17	8,51	e 3.73	4,80	8.4	3.66	.541	.154	28.9
18.	Apr	5	6.25	b 21.33	43.23	61	2,49	1,56	10,12	4.50	6.07	9.8	1.65	.717	.149	28.9
No. of Deaths.	Dec	5	6,25	12,55	35.28	75	2.10	1,31	10,37	• 3.39	• 3.77	11.2	1.76	f ,947	£.215	b 29.0
ofI	Feb	4	5.00	19.61	22,27	80	1.40	.88	10,80	+ 3.75	5.54	11,0	3.92	f 1.326	€ .502	h 29.0
No.	Jan	3	3,75	18,65	16,98	81	1.08	.68	11.00	4.52	5.45	7.3	9.97	f 1.202	E .248	h 29,0
-	Nov.	3	3.75	15.57	33.78	74	2.37	1,48	10,20	* 3.87	5,30	14.6	4.39	11.069	E.279	1 29.0

^{*} Excluding I in unknown month.

* See foot-notes to Exhibit K, page 256.

b Exceptions to the proposition that the Average Daily Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

c Exceptions to the proposition that the Average Daily Temperature was higher than the average in months when more than the average number of deaths occurred, and vice versa.

d Exceptions to the proposition that the Absolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa.

c Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa.

f Exceptions to the proposition that the Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

g Exceptions to the proposition that the Average Daily Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

b Exceptions to the proposition that the Average Daily Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

b Exceptions to the proposition that the Average Daily Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

Intermittent Fever. - Exhibit W enables us to study facts relating to intermittent fever and coincident meteorological conditions. Although a disease widely prevalent in Michigan, it is far less so than in previous years, and the number of deaths from this cause is comparatively few. The greatest number of deaths from intermittent fever was in October, and the least in January.

EXHIBIT W.-Intermittent Fever. - Deaths returned as having occurred in Michigan from Intermittent Fever, by Months, during the Year 1881, and some coincident Meteorological conditions.

30.3	NTHS ORDER	from mi Fe	aths Inter- tent ever, 881.	Degre	rature, cos,— hr.		re, Etc	of Ati		Max	e,—Rel- ive. imum 10.	per Hour,-		pher	e. Ine	Atmos- ches of y. 32° F.)
BY	NUM-			ng Day	fons at	Cent.	In Cu-	Vapor fn 24	Vapor s in 24 haled.a			lles	in Inches.	Rang	re of neter.	
IN MIT FE	ATHS ROM TER- TENT VER, LATEST RST.	Number,	Per Cent. of Total.	Average Daily Range during Day and following Night, by Register- ing Therm'trs. Observed at 7 A. M.	Average of Dally Observations 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per of Saturation.	Weight, in Grains, of Vapor in Cu-	Weight, in Troy Ounces, of Inhaled by one person hours.*	Weight, in Troy Onnees, of Vapor exhaled from Air passages in 24 hours in excess of vapor inhaled,a	Day,-7 A. M. to 2 P. M.	Night,-9 P. M. to 7 A. M.	Average Velocity of Wind, Mi by Registering Anemometer.	Rain and Melted Snow, in Ir	Monthly, and Year.	Average, Dally.	Average Pressure.
Year	r, 1881.	*43	100,00	19.84	49,59	70	8.54	2,21	9.47	4 00	4.66	9.6	25,28	1.402	.186	29,017
Ly.	Oct	9	20,93	19,84	53,63	75	3.94	2.46	9.22	2.77	8,52	8.7	5.60	.828	.206	29,089
More than Av. No. of Deaths.	Sept.	7	16,28	22.53	71,33	65	5,59	3,49	8,19	e 4.12	3,57	10,3	3,24	.654	.150	£ 28,999
re th	Aug.	5	11.63	24,48	74,63	62	5,80	3.63	8.05	* 4.45	3,53	7.0	2,05	.577	.106	29,063
Mo.	May	4	9.30	24.10	66.94	61	4.84	3.03	8.65	3,94	4.26	8.4	2.97	.707	.116	29.038
Aver	age	4	8,33	19,84	49.50	70	3.54	2.21	9,47	4.00	4.66	9,6	2,94	.843	.186	20,017
	April	3	6.98	b 21.33	43,23	64	2.49	1.56	10.12	4.50	6.07	9.8	1.65	.717	.149	28,978
0.80	June.	3	6.93	6 21,43	e 65.99	67	d 5.07	3,17	8,51	e. 3.73	4.80	8,4	3.66	.541	.154	28,940
vere ba.	July.	3	6.97	b 23,32	e 75.41	62	4 6.08	3,80	7.88	4.45	· 4.10	8.1	1.63	.527	.089	f 29 035
Deat Jeat	Feb	2	4,65	19.61	22.27	80	1,40	.88	10.50	* 3.75	5.54	11.0	3,92	1.326	.302	f 29,071
Less than the Average No. of Deaths.	Mar.	2	4.65	14.68	30,59	78	1.76	1.10	10,58	4.52	6.00	10.4	2.14	1,017	.214	28.521
No.	Nov	2	4.65	15,57	38.78	74	2.37	1,48	10,20	* 3.87	5.30	14.6	4.39	1,069	.279	f 29,037
Le	Dec	2	4.65	12.55	35,28	75	2.10	1.31	10.37	• 3.39	× 3.77	11,2	1.76	.947	.215	f 29,056
-	Jan	1	2,33	18.65	16.98	81	1.08	.68	11.00	4.52	5.45	7.3	2.27	1.202	.248	f 29.077

^{*} Excluding I in unknown month.

* See foot-notes to Exhibit K, page 256.

* Exceptions to the proposition that the Average Daily Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

***pitions to the proposition that the Average Itally Temperature was higher than the average his when more than the average number of deaths occurred, and vice versa.

**putions to the proposition that the Absolute flumplity was greater than the average in months—e than the average number of deaths occurred, and vice versa.

**ons to the proposition that the Ozone was less than the average in months when more than number of deaths occurred, and vice versa.

**nos to the proposition that the Atmospheric Pressure indicated by the Barometer was the average in months when more than the average number of deaths occurred, and vice

Typhoid Fever .- Deaths from typhoid fever in Michigan, in 1881, numbered 883. This number is about 25 per cent. greater than in any of the preceding seven years, the next largest number being in 1874, when there were 611 deaths returned. The greatest per cent. of deaths from this cause in 1881 occurred in the month of September, and the least in May. Coincident meteorological conditions are presented in Exhibit X.

EXHIBIT X .- TYPHOID FEVER .- Deaths Returned as having occurred in Michigan from Typhoid Fever, by Months, during the Year 1881, and some coincident Meteorological conditions.

	THS IN	Typ Fe	eaths rom phoid ever,	tur Deg	pera- e,— rees hr.		dilty of			Maxi	ne,— stive. mum 10.	per Hour,-		pher	e. Inc Mercur	hes of
BTN	UMBER			during Day by Register- at 7 A. M.	tons at	Cent. of	r In Cu-	Vapor hours,	Vapor sa fn 24 haled.a			les	nehes.	Rang		
TY:	EON PHOID THE, TATEST	Number.	Per Cent. of Total.	Average Dally Range during and following Night by Refing Ther. Observed at 7 A	Average of Dally Observations 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per C	Weight, in Grains, of Vapor in bic Foot of Air, a	Weight, in Troy Ounces, of Inhaled by one person in 24	Weight, in Troy Ounces, of Vapor Exhaled from Air passages in 24 hours in excess of vapor inhaled, a	Day,-7 A. M. to 2 P. M.	Night,-9 r. st. to 7 A. St.	Average Velocity of Wind, Mi by Registering Anemometer.	Rain and Metted Snow, in Inches.	Monthly, and Year,	Average, Dally.	Average Pressure. +
Year	, 1831	1883	100,00	19.84	49,59	70	3,54	2.21	9.47	4.00	4.66	9,6	35,28	1.402	.186	29.017
4.1	Oct	178	20,16	19,84	52.63	73	3.94	2.46	9,22	2.77	3,52	8,7	5.60	.828	,206	23,039
No. of Deaths.	Sept	150	16,99	22.53	71.33	63	5.59	3,49	8.19	74,12	3,57	10.3	3,24	.631	.150	s 28,990
r De	Nov	149	16,87	* 15.57	438,78	78	* 2.37	1.48	10,20	3,87	f 5,30	14.6	4.39	1.069	.279	29.037
re ti	Dec	108	12.23	e 12.55	4 35.28	75	+ 2.10	1.31	10.37	3,39	3.77	11.2	1.76	.947	.215	250,056
No.	Aug	19	11.21	24.48	7L63	62	5.80	3,63	8.05	14.45	3.53	7.0	2.05	.577	-106	29,063
Aver	age	.74	8.33	19.84	49.50	20	3,54	2,21	9.47	4.00	4,66	9,6	2,54	.843	.186	29,017
. 1	July	45	5,10	• 23,32	475,41	62	+ 6.05	3.90	7.88	4.45	f 4.10	8.1	1.62	.527	.089	29.853
Average	June_	35	3.96	c 21,43	4 65.30	67	+ 5,07	3,17	8,51	1 3.73	4.80	8.4	2,08	.541	.154	28,940
Ave	April.	34	3,85	021.53	43.23	61	2.49	1.56	10,12	4.50	6,07	9,8	1.65	317	.169	28,978
sa than the Average Number of Deaths.	May.	27	3,06	< 24.10	4 65.54	61	+ 4.84	3,00	8,63	13.94	1 4.26	8.0	2,97	.707	.116	£ 251,025
ritan unber	Mar	22	2.60	14,68	30.00	78	1.78	1,10	10.58	4.52	6,00	20,4	2.14	1.017	.914	25,827
Nun	Jan_	20	2,27	18.63	16,98	81	1,05	.65	11.00	4.02	5.45	7.3	2,27	1,902	.248	£ 20.077
2	Feb	13	2.70	19.51	22.27	80	2,40	.88	19.80	13.75	3.54	11.0	3.92	1.336	.302	£29.071

See foot-neles to Exhibit K, page
 Exceptions to the proposition that
verage in months when see
 Exceptions to the Daily Rango of Temperature was greater that the ber of deaths occurred, and vice versu. Posty Temperature was higher than the average occurred, and vice berso.

greater than the average in months one crage in months when more than

mber of deaths occurred, and vier

EXHIBIT 16.—Diarrhea.—Deaths in Michigan from Diarrhea in July and August of each of the Years 1873-1881, the Average for Nine Years ending with 1881, and some coincident Meteorological conditions, at the Agricultural College, Michigan.

	Diarrhea.	Mean	erature of 3 Da lons,—	fly Ob-	Atmos Etc Mon	dity of sphere, thly ages.	Maxi	tive.	ind, Miles	n Inches.	Inche	Pressu Atmosp es of Me uced to	here.
JULY AND AUGUST OF EACH	s from		rage ige.		y, or ura-	Foot	2 P. M.	A.M.	of W egiste	now, fi		ge of meter.	
OF THE YEARS 1873-1881.	Number of Deaths from Diarrhea.	Daily.	From Day to Day,-2 r. M. to 2 r. M.	Average,	Relative Humidity, or Per Cent. of Satura- tion.	Weight, in Grains, of Vapor in Cubic Foot of Air, a	Day,-7 A. M. to 21	Night,-9P. M. to 7 A.M.	Average Velocity of Wind, per Hour,-by Registering mometer.	Rain and Melted Snow, in Inches.	Monthly.	Average, Dally.	Average Pressure.
Average July.	64 95	17.14 18.18	18.85 19.77	71.66 69,53	74 76	6.32 5.93	2,98 3,17	2 37 1.98	6,6 6.1	3,076 2,500	.542	.152	29,027 29,036
1873 July.	65 105	15,85 c 18,55		e 70,82 e 69,49	78 81	6.45 6.29	h 3.59 h 3.55	h 3.06 h 2.65		5,124	.453	.083	J 28.914 J 28.927
1874 July. Aug.	61 104	17.68 17.23		e 72.02 e 69,39	f 74	6,00 g 5.75	h 1.80 2.80	h 1.50 1.10		2,560 1 1,278	.465	.078	28,907 J 28,924
1875 July.		c 16,26 c 16,90		69,67 65,48	f 78 f 77	5.91 5.22	3.52 3.50	3.22 3.70		2.420 1.470	.584	.696 .652	J 29.044 29.025
876 July.	69 98	15.87 17.74	17.90	72.48 71.55	78 76	6.76	2.16 1.97	1,58 1,26		1 2,100	.507	.070	j 29,009 29,048
877 July.	55 96	18.39 17.45	20.42 19.48	71.43 e 68,46	70 78	5.76 g 5.74	h 2.71 h 3.42	h 1.77		2,250 6,570	.655 .401	.088	1 29.062 29.046
878 July.		c 14.39 c 17.71			68 74	g 6.83 g 6.06	h 2, 10 h 2, 32	h 1.74 h 0.52	3,1 3,1	2,960 1,850	.611 .434	.068	1 29,085 29,010
879 July.	44 82			e 74.03 e 70.00	71 70	6,30 5.58	h 2.90 h 2.58	h 2.13 h 1.76	8.6 8.4	2.190 1.610	.608	.073	J 29.057 J 29.100
880 July.	86 90	15.68 c 13.90		e 68.04 68.58	78 1 82	g 6.20 g 6.32	h 3.61 3.97	2,23 2,23	6,5 5.9	6.270	.449	.057	29,068) 29,126
881 July.	105 157	a 23.87 a 25.06		73,43 72,69	f 73 f 70		h 4 45 h 4.45			1.810			29,093 29,117

* See foot-notes to Exhibit K, page 256.

* Exceptions to the proposition that the Average Daily Range of Temperature was less than the average for July or August in months of July or August when more than the average number of deaths from Diarrhea occurred, and vice versa.

* Exceptions to the proposition that the Average Range of Temperature "from day to day" was less than the average for July or August in months of July or August when more than the average number of deaths from Diarrhea occurred, and vice versa.

* Exceptions to the proposition that the Average Temperature was higher than the average for July or August in months of July or August when more than the average number of deaths from Diarrhea occurred, and vice versa.

* Exceptions to the proposition that the Average Relative Humidity was greater than the average for July or August in months of July or August when more than the average number of July or August in months of July or August when more than the average number of July or August in months of July or August when more than the average number of deaths from Diarrhea occurred, and vice versa.

* Exceptions to the proposition that the Day or Night Ozone was less than the average for July "Igust In months of July or August when more than the average number of deaths from ea occurred, and vice versa.

* Exceptions to the proposition that the amount of rain and melted snow was greater than the of or July or August in months of July or August when more than the average number of from Diarrhea occurred, and vice versa.

* Price Temperature was higher than the average number of from Diarrhea occurred, and vice versa.

* Price Temperature was higher than the average number of from Diarrhea occurred, and vice versa.

* Price Temperature was higher than the average number of from Diarrhea occurred, and vice versa.

* Price Temperature was higher than the average number of from Diarrhea occurred, and vice versa.

* Price Temperature was higher than the average number of from Diarrhea occurred, and vice

EXHIBIT 21.—DIARRHEA.—Deaths Returned as having occurred in Michigan from Diarrhea, by Months, during the Year 1881, and some coincident Meteorological conditions at the Office of the State Board of Health, at Lansing.

	MONTHS	Dia	eaths rom rrhea, s81.	tur Deg	pera- re,— rees thr.		Atmos Av. of	obs. at c., 2 P. d 9 P.	of 10 D of Co	Rela- Scale egrees olora- on.	per Hour	Inch		
N	ORQUE BY			Reg'ng	ations P. M.	d Snow.	or Per Cent.	Ins of Air.s	L to 2	M. to	Wind, Miles	Rang	ge of neter.	
D	FROM HARRHEA, REATEST FIRST.	Number.	Per Cent. of Total.	Average Dally Range during day and following night, by Reg'ng Therm'ters. Observed at 7 A.M.	Average of Dally Observations at 7 A. M., 2 P. M., and 9 P. M.	Inches of Rain and Melted Snow	Relative Humidity, or Per of Saturation.	Absolute Humidity,-Grains Vapor in a Cubic Foot of Air.	Day Observation,-7 A. M. P. M.	Night Observation, -9 P. 7 A. M.	Average Velocity of Wind, Mi by Registering Anemometer.	Monthly, and for Year.	Average Dally Range of Observations at 7 A. M., 2 P. M., and 9 P. M.	Avorage Pressure.
Tear,	1881	501	100,00	19,84	49.59	35,28	70	3.54	4.00	4.66	9.6	1.402	.186	29.01
	Aug	157	31.34	24.48	74.63	2.05	62	5,80	f 4.45	3.53	7.0	g .577	h . 106	29,00
Av. No. of Deaths.	July	105	20,96	23,32	75.41	1.63	62	6.08	1 4.45	4.10	8.1	g .527	h .089	29,00
Dea Dea	Sept	83	16.57	22.53	71,33	3.24	65	5,59	f 4.12	3.57	10.3	g .654	h .150	1 28.9
	June	45	8.98	21.43	65,99	8,66	67	5.07	3.73	14,80	8.4	g ,541	h.154	1 28.9
vera	ge	42	8.33	19.84	49.59	2.04	70	3.54	4.00	4.66	9,6	.843	.186	29.0
	Oct	40	7.98	19.84	o 53.63	5,60	75	* 3.94	£ 2.77	f 3.52	8.7	.828	h .206	1 29,0
	May	17	3.39	ь 24.10	c 65.94	2,97	d 61	0 4.84	r 3.94	r 4.26	8.4	.707	.116	1 29.0
	Nov	14	2,79	15,57	38.78	4.39	74	2,37	£ 3,87	5.30	14.6	g 1.069	n ,279	i 29.0
athe	Dec	13	2.59	12.55	35.28	1.76	75	2,10	f 3.39	f 3.77	11.2	g .947	h .215	1 29.0
of Deaths.	March	12	2.10	14.68	30,59	2.14	78	1.76	4.52	6,00	10.4	£ 1.017	h .214	28,8
0	April	11	2,20	b 21.33	43.23	1.65	4 64	2.49	4.50	6,07	9.8	.717	.149	28.9
	Feb	4	.80	19,61	22.27	3.92	80	1.40	£ 3.75	5,51	11.0	€ 1.326	h .302	1 29.0
1	Jan			18.65	16.98	2.27	81	1.08	4,52	5.45	7.3	£ 1.202	h .248	1 29.0

See foot-notes to Exhibit K, page 256.
 Exceptions to the proposition that more than the average number of deaths from Diarrhes occurred in months when the Average Daily Range of Temperature was greater than the average,

and vice versa.

• Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Average Daily Temperature was higher than the average, and vice

versa.

4 Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Relative Humidity of the Atmosphere was less than the average, and

vice versa.

• Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Absolute Humidity of the Atmosphere was greater than the average,

and vice versa.

f Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Amount of Ozone in the Atmosphere was less than the average, and s Exceptions to the proposition occurred in months when the

Exceptions to the

Diarrhea.—In 1881 there were 501 deaths from diarrhea returned as having occurred in Michigan. Not a single death from this cause was reported for the month of January, while 157 were recorded for the month of August. This is the largest number returned for this month in any year from 1873-1881 Exhibits 16 and 21 and Table XXI. present many interesting facts in regard to this cause of death.

Dysentery.—In 1881, there were 270 deaths returned from dysentery in this State. Table XXI. shows the geographical distribution in this State of deaths from diarrhea, dysentery, and typhoid fever.

TABLE XXI.—DIARRHEA AND DYSENTERY.—Exhibiting for the State and for Eleven Geographical Divisions of the State, the Number of Deaths Returned as having occurred from Diarrhea and Dysentery, and from Typhoid Fever, and the Per Cent. of Deaths from each Disease to Deaths from All Causes, during the Year 1881.

		D CHRONIC.		ERY, 1881.	Түрноір]	FEVER, 1881.
STATE AND GEOGRAPHICAL DIVISIONS.	Number of Deaths, 1881.	Per Cent. to Deaths from All Causes, by Geographical Divisions.	Number of Deaths, 1881.	Per Cent.to Deaths from All Causes, by Geographical Divisions.	Number of Deaths, 1881.	Per Cent. to Deaths from All Causes, by Geograph- ical Divis- ions.
STATE	501	2.60	270	1.40	884	4.60
Upper-peninsular	63	5.81	9	.83	71	6.58
Northwestern	14	2.71	8	.58	23	4,26
Northern	13	8,80	9	2.28	13	8.80
Northeastern	13	8.43	1	.26	14	8.69
Western	89	8.43	86	1.89	109	4.20
Northern-central			11	1.71	88	5.90
Bay and Eastern	81	2.57	23	1.05	136	4.81
Central	32	1.05	63	2.07	150	4,92
Southwestern	13	1.08	17	1.41	65	5.89
Southern-central	29	.98	44	1.49	128	4.34
Southeastern	154	4.71	44	1.35	138	4,23

[.] For counties included in each Division, see page 162.

occurred in months when the Average Daily Range of Barometer was greater than the average, and

vice versa.

1 Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Average Daily Pressure of the Atmosphere was greater than the average, and vice versa.

^{34-1881.}

Rheumatism.—Deaths from this cause were most numerous, in this State in 1881, during the month of March. Exhibit 19 is a continuation of a system of tabulation that was introduced in the hope of obtaining some profitable results from its study, if continued.

EXHIBIT 19.—Rheumatism.—Deaths returned as having occurred in Michigan from Rheumatism, by Months, during the Year 1881, and some coincident Meteorological conditions.

	NTHS	De	aths.	Temp ture Degr Fal	ees		Hum tmosph onthly		C.,-	R		ive.	per Hour,—		phere	e. Inc	
N U	RDER BY MBER OF			Register- st 7 a. m.	rations at M.	Per Cent.	Vapor în	f Vapor	passages in 24 vapor inhaled.a		1		les	Inches.	Rang Baron		
DE FI RHI TI GRE	ATHS ROM LUMA- SM,* ATEST	Number.	Per Cent. of Total.	Average Daily Range during Day and following Night, by Registering Therm'rs. Observed at 7 a. M.	Average of Dally Observations 7A, M., 2 P. M., and 9 F. M.	Relative Humidity, or P. of Saturation.	Weight, in Grains, of V Cubic Foot of Air.a	Weight, in Troy Ounces, of Inhaled by one person in 24	Weight, in Troy Ounces, of Van Exhaled from Air passages in hours in excess of vapor inhale	Day -7 A. M. to 2 P. M.		Night,-9 P. M. to 7 A. M.	Average Velocity of Wind, Mi by Registering Anemometer.	Rain and Melted Snow, in Inches.	Monthly, and Year.	Average, Dally.	Average Pressure.
Year	r, 1891_	112	100,00	19.84	49.59	70	3.54	2,21	9.47	4	.00	4.66	9,6	35.28	1.402	.186	29,017
	March	14	12.50	14.68	30,59	78	ь 1.76	1.10	10,58	c 4	.52	e 6.00	10.4	2,14	1.017	.214	4 28.52
More than the Av. No. of Deaths.	Aug	12	10.71	24,48	74.63	62	5.80	3.63	8,05	c 4	.45	3.53	7.0	2.05	.577	. 106	29.06
of Deaths.	Sept	12	10.71	22.53	71.33	65	5.59	3.49	8.19	c 4	.12	3.57	10,3	3.24	.634	. 150	a 28.99
5 6	Мау	11	9.82	24.10	66.94	61	4.84	3.03	8,65	8	,94	4.26	8.4	2.97	.707	.116	29.03
No.	July .	11	9.82	23.32	75.41	62	6.08	3.80	7.88	c 4	.45	4.10	8.1	1.63	.527	.089	29,03
•	Dec	10	8,93	12.55	85.28	75	ь 2,10	1.31	10,37	3	3,39	3.77	11.2	1.76	.947	.215	29.05
Ave	rage	9.3	8.33	19.84	49,59	70	3,54	2.21	9,47	4	.00	4.66	9,6	2,94	.843	. 186	29.01
	April.	9	8,04	21.33	43,23	64	2.49	1,56	10.12	4	.50	6.97	9,8	1.65	.717	. 149	28.97
٠ کو کو	Nov	9	8,04	15.57	39,78	74	2.37	1.48	10,20	e 3	3,87	5,30	14.6	4.39	1.069	.279	4 29.03
o the	Feb	8	7.14	19.61	22.27	80	1.40	.88	10.80	. 3	3.75	5.54	11.0	3,92	1.326	.302	4 29.07
No. of Deaths.	Jan	7	6,25	18.65	16,98	81	1,08	.68	11.00	4	1.52	5.45	7.3	2,27	1.202	.248	4 29.07
Less than the No. of Death	Oct	5	4.46	19,84	53.63	75	ь 3.94	2.46	9.22	c 9	2,77	a 3.52	8.7	5.60	.828	.206	4 29.08
-	June.	4	3.57	21,43	65.99	67	ь 5.07	3.17	8,51	e 3	3.73	4.80	8.4	3.66	.541	. 154	28.94

^{*} Includes Rheumatism of Heart, Inflammatory, Sciatic, Spinal, and Rheumatism.

a Sec foot-notes to Exhibit K, page 256.

b Exceptions to the proposition that the air contains more than the average amount of vapor of water in months when more than the average number of deaths from Rheumatism occurred, and vice versa.

e Exceptions to the proposition that there was less than the average Ozone in the air in months when more than the average number of deaths from Rheumatism occurred, and vice versa.

4 Exceptions to the proposition that the Atmospheric Pressure was greater than the average in months when more than the average number of deaths from Rheumatism occurred, and vice versa.

Scarlet Fever .- Three hundred and eighty-two deaths were returned as having occurred in Michigan in 1881 from scarlet fever. With the exception of 1880, this is a number less than has been reported in eight years. According to the returns, the greatest mortality from this cause was in the month of May, and the least was in the month of November. The mortality was quite evenly distributed through most of the months.

EXHIBIT Y .- Scarlet Fever .- Deaths Returned as having occurred from Scarlet Fever in Michigan during the year 1881, and some coincident Msteorological conditions.

м	ONTHS IN ORDER	Sc. Fe	eaths rom arlet ever, SS1.	Temp ture Degr Fal	ees				osphere, erages.	Ozor Rela Maxi =	tive.	of Wind, Miles per pring Anemometer.	phere.
	DEATHS FROM CARLET FEVER, GREATEST FIRST	Number.	Per Cent. of Total,	Average Dally Range dur- ing Day and following Night by Reg. Therm'rs. Observed at 7 A. M.	Average of Daily Observa- tions at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent. of Saturation.	Weight, in Grains, of Vapor in Cubic Foot of Air.	Weight, in Troy Ounces, of Vapor Inhaled by one per- son in 24 hours.a	Weight, in Troy Ounces, of Vapor Exhaled from Air passages in 24 hours, in excess of vapor inhaled, a	Day,-7 A. M. to 2 P. M.	Night,-9 P. M. to 7 A. M.	Average Velocity of Wind, Miles per Hour,—by Registering Anemometer.	Average Pressure of Atmosphere. (Barometer Reduced to 32° Fabr.)
YEA	R, 1881	*382	100.00	19,84	49,59	70	3.54	2.21	9.47	4.00	4.66	9.6	29.017
	(May	45	11,78	24, 10	ь 66.94	61	c 4.84	3,03	8.65	3,94	4.26	8.4	29.038
	January	41	10,73	18.65	16.98	81	1.08	.68	11.00	4,52	5,45	7.3	29.077
No. of Deaths.	December	37	9.69	12.55	35.28	75	2,10	1.31	10,37	3,39	3.77	11.2	29,056
No. of Deaths.	April	36	9.42	21,33	43.23	64	2.49	1.56	10.12	4.50	6,07	9.8	28.976
of I	July	35	9.16	23.32	b 75.41	62	€ 6,08	3.80	7.88	4.45	4,10	8.1	29,035
No.	August	35	9.16	24,48	ь 74.63	62	€ 5.80	3.63	8.05	4.45	3.53	7.0	29,063
×	March	34	8.90	14.68	30,59	78	1.76	1.10	10.58	4.52	6.06	10.4	28,821
	June	33	8,64	21.43	b 65.99	67	€ 5.07	3.17	8,51	3,73	4.80	8.4	28.940
Ave	rage	32	8,33	19,84	49,59	70	3.54	2,21	9,47	4,00	4,66	9,6	29,017
hs.	February	31	8.12	19.61	ь 22.27	80	¢ 1.40	.88	10.80	3.75	5.54	11.0	29.071
Less than Av.	September	23	6.02	22,53	71,33	65	5.59	3,49	8.19	4.12	8.57	10.3	28,999
of	October	17	4.45	19.84	53.63	75	3.94	2.46	9.22	2.77	3.52	8.7	29.089
No.	November	15	3.93	15.57	b 35.78	74	0 2.37	148	10.20	3,87	5,30	14.6	29,037

^{*} Excluding I death in unknown month.

See foot-notes to Exhibit K, page 255.

Exceptions to the proposition that the Average Daily Temperature was lower than the average in months when more than the average number of deaths from Scarlet Fever occurred, and vice versa.

Exceptions to the proposition that the Absolute Humidity of the Atmosphere was less than the average in months when more than the average number of deaths from Scarlet Fever occurred, and vice versa.

Consumption.—One thousand nine hundred and fifty-four deaths were caused by consumption in Michigan in 1881. Considering the ratio of males to females in the State, the mortality from this disease was considerably greater among the females. The greatest number of deaths occurred in May; the least number in January. The number of deaths from this disease in each of the years 1874-1880, is as follows: in 1874, 1,392 deaths; in 1875, 1,479; in 1876, 1,590; in 1877, 1,664; in 1878, 1,641; in 1879, 1,680; and in 1880, 1,829. The number of deaths from this cause in 1881 exceeds the largest number in any of those years by 125.

EXHIBIT N.—Consumption.—By Sex, the Number of Deaths Returned as having occurred in Michigan from Consumption during the Year 1881, by Months Equalized to Uniform length of 30.44 days each; also the Average Number per Month. (Deaths in unknown month excluded.)

		1	DEATI	s Fro	n Con	SUMP	LION I	n 1881,	BY M	ONTH	of E	QUAL	LENG	тн,
SEX.	TOTAL.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Monthly Av.
Total	- 1,948	113	151	163	209	177	148	156	155	157	161	165	194	163
Males	\$-06	45	83	81	106	75	67	67	73	63	70	83	93	76
Females.	1,042	68	68	81	103	102	81	63	82	94	91	82	101	87

[•] Excluding 7 deaths in unknown month; 1 male gained and 7 females lost in equalizing. The number of deaths from consumption, as returned, is 1,854.



EXHIBIT O .- Consumption. - Deaths from Consumption, Returned as having occurred in Michigan, by Months, during the Year 1881, and some coincident Meteorological conditions.

A	IONTHS IN	Dea fom e sump 188	Con-	Tempe ture, Degree Fab	ees	1000	-	of Atmo	Contract of the last	Ozon Relat Maxis	ive.	Miles per mometer.	Armosphere.
DE Co	BER BY NUMBER OF ATHS FROM INSUMPTION, GREATEST FIRST.	Number.	Per Cent, of Total,	Average Daily Range durring Day and following Night by Reg. Therm'trs. Observed at 7 A. M.	Average of Dally Observa- tions at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent. of Saturation.	Weight, in Grains, of Va- por in Cubic Foot of Alr. a	Weight, in Troy Ounces, of Vapor Inhaled by one per- son in 24 hours, a	Weight, in Troy Onness, of Vapor Exhaled from Air passages in 24 hours in excess of vapor inhaled.	Day,-7 A. M. to 2 P. M.	Night,-9 r. M. to 7 A. M.	Average Velocity of Wind, Miles pe Hour,-by Registering Anemometer.	Average Pressure of An (Barometer Reduced to 32°
rear	, 1881	ь 1,947	100,00	19.84	49.59	70	8.54	2,21	9,47	4,00	4.66	9,6	29.017
: :	April	206	10.58	21.33	c 43.23	64	2.49	d . 1.56	10.12	4.50	6.07	9.8	28,978
ath	Dec	198	10, 17	12.55	a 35,28	75	2.10	8 1.31	10.37	3.39	8.77	11.2	29,050
PE	May	180	9.21	24.10	66.91	G1	4.84	3.03	8.65	3.94	4.26	8.4	29.03
Number of Deaths.	March	164	8,42	14.68	€ 30.59	78	1.76	d 1.10	10.58	4.52	6.00	10.4	28,82
qui	Oct	164	8.42	19,84	53.63	75	3.94	2.46	9.22	2.77	3,52	8.7	29.08
Num	Nov	163	8.37	15,57	a 38.78	74	2,37	d 1.48	10,20	3.87	5,30	14.6	29.03
Ave	rage	162	8,33	19.84	49,59	70	8.54	2.21	9.47	4.00	4.66	9,6	29,017
AV,	July	159	8.17	23.32	e75.41	62	6.08	4 3.80	7,88	4.45	4.10	8.1	29, 03
	Aug	158	8.12	24.48	c 74.63	62	5,80	d 3.63	8.05	4.45	8,53	7.0	29.06
No. of Deaths.	Sept	155	7.96	22.53	e71.33	65	5.59	# 3.49	8.19	4.12	3,57	10.3	28,99
than the	June	146	7.50	21.43	€ 65.99	67	5.07	4 3.17	8.51	3.73	4.80	8.4	28,94
No.	Feb	139	7.14	19,61	22.27	80	1.40	,88	10.80	3.75	5.54	11,0	29.07
Less	Jan	115	5.91	18.65	16.98	81	1.08	.68	11.00	4.52	5.45	7.8	29,07

Pneumonia.-Particulars as to this cause of deaths are amply shown in Exhibits 18, P, and 17. In a period of ten years the greatest number of deaths from pneumonia has occurred in the month of March seven times, twice in December, and once in February. In Exhibit P the influence of the meteorological conditions upon the mortality from pneumonia may be studied. The propositions made in this Exhibit are the opposite of those made in Exhibit O concerning consumption, and to each proposition in Exhibit P there are only two exceptions.

^{*}See foot-notes to Exhibit K, page 256.

b Excluding 7 in unknown month.

c Exceptions to the proposition that the Temperature was higher than the average in months when more than the average number of deaths from Consumption occurred, and vice versa.

d Exceptions to the proposition that more than an average amount of vapor was inhaled in months in which there was more than the average number of deaths from Consumption, and vice versa.

EXHIBIT 18.—PNEUMONIA.—Deaths in Michigan from Pneumonia in February and March of each of the Years 1873-1881, the Average for Nine Years ending with 1881, and some coincident Meteorological conditions, at the Agricultural College, Michigan.

AND MARC	RY	m Pacu-	servat	of 3 Da tions—7	A.M.,	Atmos Etc Mon	dity of sphere, s.,— thly ages.	Maxi	tive. mum 10.	ind, Miles ring Anc-	n Inches	Inche	Atmosp as of Me	chere.
		neaths from		rage		y, or tura-	Foot	P. M.	TA.M.	r of W Registe	Snow, f		ge of neter.	2
THE YE. 1873-188	ARS	Number of Deaths	Dally.	From Day to Day, 2 P. M. to 2 P. M.	Average.	Relative Humidity, or Per Cent. of Satura- tion.	Weight, in Grains, of Vapor, in Cubic Foot of Air, A	Day, -7 A.M. to 2 P. M.	Night,-0P.M.to7A.M.	Average Velocity of Wind, per Hour,—by Registering mometer.	Rain and Melted Snow, in Inches.	Monthly.	Average, Dally.	Average Pressure.
(Febr	ruary.	79	14.76	16.98	23,54	87	1.54	4.77	5.58	9.6	1.902	1.092	.168	29,021
v Marc	ch	100	14.10	16.31	31,30	84	1.90	1,98	5.69	10.6	1.798	1.209	.175	28,968
873 Febr	ruary	110	14.61	18,71	s 19.10	1 91	k 1.43	4.21	o 5.93		.770	.842	.197	28,84
(Marc	ch	- 80	14.16	-	28,30	1 71		n 4,09	5,80		1,780	1.307	10000	r 28.85
874	ruary	113	c 12.32			89	k 1.55	5,53	6.10		1.550	1,387	-	4 28,92
(Marc		108	13,52	16.45		83	1	n 5.00	-		1,786	1.081	.133	28.89
375?	h	116	20.14		g 8.35 h 26.20	1 94		m 5.78	100	-	2.198	1,231	,206	28,87
\$10000	ruary	71		e 16.66		1 84	k 1.59	5.76	1		3,040	1.033	.163	28,84
376?	ch	107	12.84		h 30.55	3 95		п 6.06			4.840	1.812	.223	28.92
(Febr	ruary	56	14.79	1000	s 32.31	1 85		m 4.54			.000	1,007	.199	29,12
377 3	ch	64	15,29	17.29	24.51	91	1.53	5,29	6.06		.560	3.119	151	28.08
(Febr	ruary.	37	= 14.59	e 15,93	g 28.07	89	k 1,91	5,00	0 5.33	5,0	2.740	1,033	.123	29.02
578 Marc	ch	59	a 12.06	16,77	h 40.90	1 83	12,80	n 4.68	p 4.94	6.7	.312	.942	.181	29.02
Febr	ruary	92	11.46	14.79	g 20.40	1 92	k 1.23	4.54	5,01		1.430	.964	.151	4 29.10
Marc	ch	114	12.74	15.65	33.19	78	1.93	3.93	4.30	12.4	1.570	.796	.137	r 29.10
380	ruary	82	12,00	16,41	29.19	68	1.92	3.83	4.17	12.7	1.620	1.241	100	9 29.07
	ch	111	14.61	16,65	35.50	79		n 5.52	4.94	12,8	1,700	1.380		r 29.18
881	ch	126	20.18	*****	g 21.58 h 30.28	1 93	1,66	3.75 4.52	5.54 p 6.00	11.0	2.660		******	9 29.15 28.89

See foot notes to Exhibit K, page 256.
 Three out of nine cases in which the Average Daily Range of Temperature and the deaths were c Three out of nine cases in which the Average Daily Range of Temperature and the deaths were both less than the average.

4 One out of nine cases in which the Average Daily Range of Temperature and the deaths were both less than the average.

5 Three out of eight cases in which the Range of Temperature "from day to day" and the number of deaths were both less than the average.

6 Eight out of nine cases in which the Average Temi are was higher and the deaths less than the average, or vice versa.

1 Four out of nine cases in which the Average Temi are was higher and the deaths less than the average, or vice versa.

1 Six out of nine cases in which the Reaverage, or both less than the average

1 Five out of nine cases in which the the average, or both less than the average

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1 Five out of nine cases in which the five average, or both less than the average

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1 Five out of nine cases in which the five average, or both less than the average

[[]Foot notes to Exhibit 18 continue

EXHIBIT P.—PNEUMONIA.—Deaths returned as having occurred from Pneumonia, in Michigan during the Year 1881, and some coincident Meteorological conditions.

	Months	Pne	aths com cumo- 1881.	Temp ture, Degr Fah	ees	Hum Etc.	ldity o	of Atm	osphere, verages.	Ozon Relat Maxir = 1	ive.	hd, Miles per Anemometer.	phere. Fahr.)
	NUMBER OF DEATHS FROM PNEUMONIA, GREATEST FIRST.	Number.	Per Cent. of Total.	Average Dally Range dur- ing Day and following Night, by Reg. Therm'r. Observed at 7 A. M.	Average of Dally Observa- tions at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per- Cent, of Saturation.	Weight, in Grains, of Vapor in Cubic Foot of Air.a	Weight, in Troy Ounces, of Vapor Inhaled by one per- son in 24 hours.a	Weight, in Troy Onnees, of Vapor Exhaled from Air passages in 24 hours, in excess of vapor inhaled.	Day,-7 A. M. to 2 P. M.	Night,-9 F. M. to 7 A. M.	Average Velocity of Wind, Hour,-by Registering Aner	Average Pressure of Atmosphere, (Barometer Reduced to 33° Fahr.)
Year	r, 1881	b802	100,00	19,84	49.59	70	3.54	2.21	9.47	4.00	4.66	9.6	29.017
٧.	March	126	15.71	14.68	30.59	78	1.76	1.10	10,58	4.52	6.00	10.4	28.821
bs.	April	100	12.47	21.33	43,23	64	2,49	1.56	10.12	4.50	6.07	9,8	28.978
Nore than the A No. of Deaths.	December	91	11.35	12.55	35,28	75	2.10	1.31	10.37	3.39	3.77	11.2	29.056
of L	February	88	10,97	19.61	22,27	80	1.40	.88	10.80	3.75	5.54	11.0	29,071
No.	January	77	9,60	18.65	16,98	81	1.08	.68	11.00	4.52	5.45	7.3	29.077
N	Мау	70	8.73	24.10	e 66.94	61	4.84	4 3.03	8.65	3.94	4.26	8.4	29.038
Ave	rage	67	8,33	19,84	49.59	70	3.54	2.21	9.47	4.00	4.66	9.6	29,017
	October	55	6.56	19.84	53.63	75	3,94	2.46	9.22	2.77	3.52	8.7	29,089
A.V.	September	47	5.86	22.53	71.33	65	5.59	3.49	8.19	4.12	3,57	10.3	28,999
No. of Deaths.	November	43	5.36	15.57	c 38.79	74	2.37	4 1.48	10,20	3.57	5.30	14.6	29,037
of D	July	39	4.86	23,32	75.41	62	6.08	3.80	7.88	4.45	4.10	8.1	29,035
No.	June	37	4.61	21.43	65,99	67	5.07	3.17	8.51	3.73	4.80	8.4	28.940
4	August	29	3.62	24.48	74.63	62	5.80	3.63	8.05	4.45	3,53	7.0	29.063

See foot-notes to Exhibit K, page 256.
 Excluding 3 in unknown month.
 Exceptions to the proposition that the Average Daily Temperature was lower than the average in months when more than the average number of deaths from Pneumonia occurred, and vice

I Exceptions to the proposition that less than an average amount of vapor was inhaled in months when more than the average number of deaths from Pneumonia occurred, and vice versa.

E Seven out of nine cases in which the Absolute Humidity was greater and the deaths less than

the average, or vice versa.

1 Three out of nine cases in which the Absolute Humidity was greater and the deaths less than

I Three out of nine cases in which the Absolute Humidity was greater and the deaths less than the average, or vice versa.

"Two out of nine cases in which the Day Ozone and the deaths were both greater than the average, or both less than the average.

"Six out of nine cases in which the Day Ozone and the deaths were both greater than the average, or both less than the average.

"Four out of nine cases in which the Night Ozone and the deaths were both greater than the average, or both less than the average.

"Five out of nine cases in which the Night Ozone and the deaths were both greater than the average, or both less than the average.

"Four out of nine cases in which the Pressure of the Atmosphere and the deaths were both greater than the average, or both less than the average.

"Three out of nine cases in which the Pressure of the Atmosphere and the deaths were both greater than the average, or both less than the average.

EXHIBIT 17.—PNEUMONIA.—By Months, the Number of Deaths Returned as having occurred from Pneumonia, in Michigan, during each of the Years 1872-1881, and the average for Ten Years ending with 1881.

V					D	EATHS	FROM 1	PNEUM	ONIA,	1872-186	1.			
YBARS.	TOTALS.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk
1872	641	46	64	75	79	53	28	26	81	29	56	63	89	2
1873	706	84	110	80	58	65	55	20	29	84	37	65	68	1
1874	800	49	57	108	141	108	46	29	32	45	3 9	50	93	
1875	745	85	116	128	88	73	36	21	17	81	42	41	65	:
1876	627	43	71	107	6 8	50	33	20	87	28	88	40	91	1
1877	465	58	56	61	60	89	24	14	23	26	26	35	88	2
1878	462	36	37	59	54	87	80	15	19	22	35	53	65	ļ
1879	701	44	92	114	102	59	36	80	81	42	25	45	80	1
1880	8:2	56	82	111	113	79	37	29	36	51	44	63	105	1
1881	805	77	88	126	100	70	37	39	29	47	83	43	91	3
Average }	676	58	7;	97	86	63	36	24	28	36	40	50	79	2

EXHIBIT 20—Relative Amount of Ozone in Air from 9 P. M. to 7 A. M.,— Night Observations,—by Months, during the Years 1872-1881, and the Average for 10 years ending with 1881; also, the Average for 10 years ending with 1881, from 7 A. M. to 2 P. M.,—Day Observations, at the Agricultural College.

****	. 00	Annual		-		OZON	E OBS	ERVAT	rions,	BY M	ONTHS			
YE	ARS.	Aver- age.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
	[1872	2,82	4.50	4.00	3,00	2,63	2.14	1.91	.88	.98	1.40	1.93	4.60	5.8
	1873	4.02	5.06	4.21	4.09	3,76	4.58	3,26	3.59	3.55	2.30	4,52	4.30	4.9
	1874	4.10	5.10	5.53	5.00	5.70	5.80	3.50	1.80	2.80	2,90	3.32	3.80	4.0
	1875	4.53	5.52	5.78	5.70	3.73	3.19	3,96	3,52	3.50	4,30	5.30	4.90	5.0
Daw	1876	3.68	5.32	5.76	6.06	3.70	3.10	1.87	2,16	1.97	2.60	3.45	3.57	4.5
Day	1877	3.66	4.87	4.54	5,29	3.70	3.29	3.17	2.71	3,42	2,93	3,20	3.60	3,1
	1878	3.50	3.74	5.00	4.68	4.37	3.97	3.17	2.10	2.32	2,23	2,71	3,17	4.5
	1879	3,24	4.00	4.54	3.93	3.00	2,79	2.43	2,90	2.58	2.87	3,32	3.58	2.9
	1880	4.05	2,97	3,83	5.52	5.10	3.65	3.80	3.61	3,97	2,93	2.90	5.10	5.1
	1881	4,00	4.52	3,75	4.52	4.50	3,94	3,73	4.45	4,45	4.12	2.77	3.87	3,3
Av. for	10 years.	3.76	4.56	4.69	4.78	4,02	3.65	3,08	2,77	2.95	2.86	3.34	4.04	4.3
	[1872	4.24	5.44	6.00	5.71	5,30	3.84	3.23	2.28	.99	1.86	3.18	6.17	6.8
	1873	4.63	6,32	5.93	5.80	4.27	4.59	2.66	3.06	2,65	4.27	4.69	5.47	5.8
	1874	3,99	6,39	6.10	6.00	6.60	4.90	2,34	1.50	1.10	1.20	3.01	4.50	4.2
	1875	5.04	5.93	6.57	6.19	3,96	4.03	3.66	3,22	3.70	3.68	6,20	6.60	6.7
Night.	1876	4.11	6.90	7.27	7.00	5.53	4.13	2.27	1.58	1.26	1.73	3,48	3.33	4.8
Night	1877	3,33	5.03	4.14	6.06	4.27	2,94	2,90	1.77	1.03	1.53	3.19	3,73	3.3
	1878	8.42	4,48	5.33	4.94	4.53	4.10	3.00	1.74	1,52	1.60	1.97	3.14	4.7
	1879	3,36	4.48	5.01	4,30	4.00	2.68	2,03	2.13	1.76	2.53	2.81	4.63	3,8
	1880	3.63	2,97	4.17	4.94	4.93	3.03	2.70	2,23	2,28	2.15	2.68	5.33	6.2
	1881	4,66	5.45	5.54	6.00	6,07	4.26	4,80	4.10	3.53	3,57	3.52	5.30	3.7
Av. for	10 years.	4.04	5,34	5.61	5.69	4,95	3.85	2.96	2.36	1.98	2.41	3,47	4.82	5.0

35-1881.

CORRELATION OF CONSUMPTION AND PNEUMONIA.

These two diseases may be studied together by sex, by months, and by periods of age in the two following tables. The facts in regard to these two diseases seem to show that they are most prevalent under opposite circumstances.

FABLE XXII.—Correlation of Consumption and Preumonia.—Deaths Returned as having occurred from Consumption and Preumonia, in Michigan, during the Year 1881, by Months, Exhibiting the Total Number, Number of each Sex, Per Cent. of Total, and Excess of each Sex.

	-		00	CONSUMPTION, 1881.	10N, 188	i.					P	NEUMON	PREUMONIA, 1881.			
		Number.		of din	Per Cen	t, of each Sex both Sexes	Per Cent, of each Sex to Total of both Sexes,	fotal of		Number.		or din	Per Cent	Per Cent, of each Sex to Total of hoth Sexes,	Sex to T	otal of
MONTHS, 1881.		Po.		p Mor		Tip.	Excess.	088.		Fe		ow u:		Fe.	- Excess.	.88.
	Males.	males.	Total.	Per Cer in eac Total	Males,	males,	Males.	Fe- males.	Mules,	males.	Total.	Per Cer In eac Total	Males.	males.	Males.	Fe- males.
Min same	900	1,049	1,954	100.00	46.32	53.68	-	7.36	467	337	b 805	100.00	58,08	41.92	16.16	
	46	e 69	o 115	5.89	40.00	60.00		20.00	33	0 44	c 77	9,57	42,86	57.14		14,28
	76	e 63	c 139	7.32	54.68	45.32	9.36		47	07 0	be 88	10.93	54.02	45.98	8.04	******
	82	c 85	161	8.89	20,00	20.00		***************************************	7.4	c 23	126	15,65	58,73	41.27	17.46	
	101	103	306	10.54	50,49	49.51	86"	************************	64	36	- 100	12.42	64.00	36.00	28.00	******
	76	c 104	180	9.21	42.22	87.78		15.56	48	0 00	70	8.70	68,67	31.43	87.14	******
-	99	80	146	7.47	45.21	64.79	***************************************	9.58	19	18	37	4.60	51,35	48.65	2.70	-
CONTRACTOR STATES		c 91	0 120	8.14	42.77	57.23	***************************************	14.46	26	0 13	e 39	4.85	66,67	83.33	83.34	
and the section	74	18	c 158	8.09	46.84	53.16		6,32	16	13	66 0	3.60	55,17	44.83	10.34	******
		e 93	e 155	7.93	40.00	60.00	***************************************	20,00	24	e 93	0 47	5.84	51.06	48.94	2.12	******
	11	e 93	c 164	8.39	43.29	56.71		13.42	88	c 27	c 55	6.83	20,91	49.09	1.82	******
***************************************	c 82	81	e 163	8.34	50,31	49.69	.62	**********	c 29	14	c 43	18'9	67.44	32,56	34.88	******
STATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN	95	103	108	10.13	47.98	52.03	***************************************	4.04	29	34	16	11.30	69.64	37.36	25.28	******
10	00	7	1	98"	42,86	57.14		14.28	01	1	20	.87	66.67	33,33	33.34	*****
Section - Section -	75	87	154	8.83			-		88	88	67	8.83		1		-

ng the in unknown month.

number of deaths from Consumption, and more than the average number from Phoumonia, and vice versa.

is difference between the Sexes, and the Per Cent. of Total Deaths at each Period of Age from Consumption -Concention of Consumption and Preumonia. - Exhibiting the Number and Per Cent. of Deaths ia. Returned as having occurred in Michigan, during the Year 1881.

			CON	CONSUMPTION, 1881.	ION, 1	881.					PNI	PREUMONIA, 1881.	IA, 188	1.		
HODS OF		NUMBER.		01 82	PER	CRNT. OI	PER CENT. OF THE SEXES.	XES.		NUMBER,		saths tio to	PER C	ENT. OF	PRR CENT. OF THE SEXES.	CIES.
.485, 1881.		Fe.				Fe.	Excuss.	MSS.		Fe-		ch Ag		Fe.	Excress.	188.
	Males.	males.	Total.	Per Ca no ta Deat Ages	Males,	males.	Males.	Fe. males.	Males.	males,	Total	Per Ca at eat Deat Ages	Males.	males.	Maics.	Fe- males,
All Ages, 1881	902	1,049	1,954	100.00	46.32	53.68		7.36	467	337	e 805	100,00	58.08	41.92	16.16	
Under 6	19	a 56	120	6,14	53,33	46.67	6.66	-	189	a 143	c 333	41,37	56.93	43.07	13.86	
5 to 10	17	a 10	27	1.88	62.96	37.04	25,93	9	18	a 22	40	4.07	45,00	65.00	4	10.00
10 to 16	13	55	35	1.79	37,14	62.86		25.72	co	15	18	9.24	16,67	83.33		66.66
15 to 20	a 61	A 134	a 195	86.6	31.28	68.72		37.44	a 14	a 13	a 27	3.35	51.85	48.15	3.70	
20 to 25	a 118	4 173	n 291	14.89	40.55	69.45	٥	18.19	n 25	n 10	A 35	4.35	71.43	28.57	42.86	4
25 to 30	e 118	a 133	a 251	12,85	47.01	52,99		5.98	6 21	n 6	12 4	3.35	77.78	22.23	92.56	
30 to 35	a 75	96 w	s 171	8,75	43,86	56,14	q	12 28	n 14	a 7	. 21	2.61	19.99	33,33	33,34	0
35 to 40	n 74	* 77	n 151	7.73	49.01	50,99	9	1.98	n 11	a 16	4 27	3.35	40.74	59.56	9	18,52
40 to 45	* 61	a 67	a 128	6.55	47.66	52,34	***************************************	4.68	a 18	6 8	n 27	0,05	66.67	33,33	33,34	
45 to 50	44	4 64	108	5.53	40.74	59.26	a	18,52	19	8 8	28	3.48	67.86	32,14	35.72	9
50 to 55	48	38	86	4.40	18,22	44,19	11,62	***************************************	000	13	35	4,35	62,86	37.14	25.72	******
55 to 60	37	43	80	4.09	46.25	63.76	***************************************	7.50	21	11	000	3,98	65.62	34.38	31.24	******
60 to 65	49	200	81	4,15	60.50	39.50	21.00	********	16	6	25	3.11	64.00	36.00	28.00	
65 to 70	41	33	73	3.74	56,16	43,84	12,32		96	13	68	4.84	66.67	33,33	33.34	
70 to 75	38	24	62	3.17	61.29	38.71	99,58	4	17	18	88	4.84	53,85	46.15	7.70	9
75 to 80	21	23	**	2.20	47.73	52.27	*******	4.54	50	7	27	3,85	74.07	25,93	48.14	-
go and over	10	50	18	.93	55.56	44.44	11.12	D.	01	10	12	1.49	16.67	83.33	9	99'99
Unknown	16	17	88	1,69	48.48	51.52	0	3.04	1	9	13	1,62	53,86	46.15	7.70	4
Average	55	61	113	6.78	46.02	53.98			27	20	17	6.79	57.45	42.55		
				-				=								

More than an average number and per cent, of deaths from Consumption and less than an average number and per cent, of deaths from Pneumonia, and vice versa.
 b More than the average proportion of males from Consumption, and less than the average proportion of males from Pneumonia, and vice is a local number of a local periods of 5 years each, unknown ages excluded.

TABLE XXIV.—Exhibiting, for the State and Eleven Geographical Divisions in 1881, by Sex, the Number of Deaths Returned as having occurred from All Causes, from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea; also, the Per Cent. of Deaths from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea, to Deaths from All Causes.

STATE			Cons	ON.	PNEU	MONIA.	TYP	PHOID VER.	TE	RMIT- NT ER.	DIABE	
AND GEOGRAPHICAL DIVISIONS. *	SEX.	All Causes, 1881.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent, to Deaths from All Causes.	Number of Deaths.	Per Cent, to Deaths from All Causes,	Number of Deaths.	Per Cent. to Deaths from All Causes.
1	Total	19,238	1,954	10.16	805	4,18	834	4.60	44	.23	501	2.60
	Males	10,263	905	8.82	467	4.55	491	4.78	19	.19	288	2.81
STATEb	Females.	8,910	1,049	11.77	337	3.78	393	4.41	25	.28	213	2.30
"	Unk'n	65			1	1.54						
	Total	1,084	56	5.17	36	3.32	71	6.55	6	.55	63	5.81
	Males	622	29	4,06	22	3,54	53	8.52	3	.48	31	4.98
Upper-peninsular	Females.	441	27	6.12	14	3.17	18	4.08	3	,68	32	7,26
1	Unk'n	21										
2	Total	517	36	6.96	15	2.90	22	4.26			14	2.71
Yant market	Males	276	14	5.07	11	3,99	5	1.81			10	3.60
Northwestern	Females.	239	22	9,21	4	1.67	17	7.11			4	1.67
	Unk'n	- 2				*****						
(Total	394	33	8.38	23	5.84	13	3,30			13	3.30
Northern	Males	204	13	6.37	15	7,35	5	2.45			6	2.94
	Females.	190	20	10.53	8	4.21	8	4.21			7	3.6
(Total	879	25	6.60	10	2.64	14	3.69	1	.26	13	3.43
Northeastern	Males	214	17	7.94	7	3.27	8	3.74	1	.47	10	4.67
	Females.	165	8	4.85	3	1.82	6	3.64			3	. 1.8
1	Total	2,594	223	8.60	109	4.20	109	4.20	6	.23	89	3,4
	Males	1,379	101	7.32	67	4,86	62	4.50	4	.29	56	4.00
Western	Females.	1,207	122	10,11	42	3.48	47	3,89	2	.17	33	2.78
1	Unk'n	8										
(Total	644	50	7.76	81	4.81	38	5,90	7	1.09		
Northorn control	Males	346	30	8.67	17	4.91	23	6.65	3	.87		
Northern-central	Females.	296	20	6.76	14	4.73	15	5.06	4	1.35		
	Unk'n	2									Lann	444.00

[•] For counties included in each Division, see page 162.

• For counties and townships from which no returns of deaths for 1881 were received, see Exhibit II, page 136; for those in which no deaths occurred, see Exhibit II, page 138.

TABLE XXIV .- CONTINUED.

			Cons	UMP-	PNEUI	MONIA.	TYP	HOID TER.	TE	RMIT- NT VEH.	DIAR	RHEA.
GEOGRAPHICAL DIVISIONS.	SEX.	All Causes, 1881.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.
	Total	3,152	274	8.69	172	5.46	136	4.31	5	.16	81	2.5
Bay and Eastern	Males	1,093	132	7.80	105	6,20	78	4.61			42	2.48
Bay and Eastern	Females.	1,451	142	9.79	67	4.62	58	4.00	5	.34	39	2.69
	Unk'n	8		******								
-0	Total	3,050	325	10.66	116	3.80	150	4.92	3	.10	32	1.0
	Males	1,526	139	9.11	56	3,67	70	4.59	1	.07	20	1.3
Central	Females.	1,516	186	12,27	60	3.96	80	5,28	2	.13	12	.7
	Unk'n	8										
4	Total	1,205	149	12.37	61	5.06	65	5.39	3	.25	13	1.0
	Males	608	66	10.86	37	6.09	27	4.44	2	.83	6	.9
Southwestern	Females.	595	83	13.95	.24	4.03	88	6.39	1	.17	7	1.1
	Unk'n	2										
	Total	2,949	366	12.41	113	3.83	128	4.34	2	,07	29	.9
	Males	1,593	148	9,29	60	3.77	83	5.21	2	.13	18	1.1
Southern-central	Females.	1,348	218	16.17	53	3,93	45	3.34			11	.8
	Unk'n	8						*****				
	Total	3,270	417	12.75	119	3,64	138	4.22	11	.34	154	4.7
-	Males	1,802	216	11.99	70	3.88	77	4.27	3	.17	89	4.9
Southeastern	Females.	1,462	201	13,75	48	3.28	61	4.17	8	.55	65	4.45
	Unk'n	6			1	16,67						

a For counties included in each Division, see page 162.

TABLE XXV.—Exhibiting, for the State, and by Counties, for the Year 1881, the Number of Deaths Returned as having occurred from All Causes, from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea; also the Per Cent. of Deaths from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea, to Deaths from All Causes.

		Consu	OPTION.	PREUI	EONIA.	Турноп	FEVER.	INT'M'NT	FEVER.	DIA	RRHEA.
STATE AND UOUNTIES.	All Causes, 1881.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Deaths	Num- ber of Dea's,	Per Cent. to Deaths from Al Causes
Btate	19,238	1,954	10.16	805	4.18	884	4.60	41	.28	501	2,60
Alcona	12	2	16.67			1	8.33				
Allegan	412	50	12,14	17	4.13	22	5.34	1	.24	7	1.70
Alpena	114	18	11.40	4	8.51	4	8.51			10	8.7
Antrim	75	8	4.00	4	5.33	3	4.00				
Baraga	18			···	••						
Barry	290	80	1,03	12	4.14	11	8.79	1	.84	7	2.4
Вау	541	51	9.43	23	4.25	15	2.77	1	.18	20	8.7
Benzie	65	8	4.62			1	1.54			1	1.5
Berrien	807	85	11.40	20	6.51	18	5.86	1	.32	5	1.6
Branch	255	88	14.90	15	5.88	18	7.06	•••••		1	.8
Dalhoun	426	60	14.08	8	1.83	21	4.93			1	.2
Dass	176	24	13.64	10	5.68	10	5.63				
harlevoix	54	5	9.26	8	14.81	1	1.85		•	1	1.8
heboygan	109	9	8,26	7	6.42	4	3.67			11	10.0
Jhippewa	10	8	30.60							1	10.0
Clare	66	4	6.06	4	6.06	6	9.09				
Ilinton	276	27	9.78	11	3.96	11	8.99			2	.3
Drawford	16	2	12.50			2	12.50				
Delta	83	8	8.61	8	8.61	1	1,20	2	2.41		
Caton	356	89	10.96	16	4.49	9	2.53			3	.2
Emmet	79	9	11.89	2	2.53	2	2.53				
Senesee	409	54	13.20	13	3.18	14	8.42			6	1.4
Bladwin	10] 1	10.00	1	10.00			 -			
3. Traverse .	70	9	12,86	1	1.43	6	8.57			1	1.4
Fratiot	212	17	8.02	9	4.25	9	4.25	2	.94	2	.9.
Hillsdale	372	46	12.87	13	8.49	27	7,26	••••		4	1.0
Houghton	243	15	6.17	5	2,06	19	7.82	1	.41	26	10.7
Huron	242	9	8.72	15	6.20	1	.41			10	4,1
ingham	293	87	12.42	10	3.36	27	9.06			3	1.0
lonia	300	32	10.67	9	8.00	24	8.00				
losco	174	5	28.74	4	2.30	7	4.02			2	1.1
[sabella	176	17	9,60	10	5.68	8	4.55	1	.57		
Isle Royal											
Jackson	407	41	10.07	8	1.97	12	2.95			6	1.4
Kalamazoo	437	46	10.53	24	5,49	13	2.97			6	1.3
Kalkaska	38	4	10.53	2	5, 26						
Kent	1,022	105	10,27	34	3,33	37	3.62	2	.20	41	4.0
Keweenaw.	122	5	4.10	10	8.20	2	1.61			- 4	3.2
Lake	48	4	8.33	3	6.25	2	4.17				}
Lapeer	806	22	7.19	18	5.88	17	5.56	1	.32	11	8.59
Leelanaw	96	6	6.25	1	1.04						
Lenawee	415	53	12,77	12	2.89	10	2.41			5	1.9

[.] No returns from county clerk to State Department.

TABLE XXV.—CONTINUED.

•		Consus	PTION.	PNEU	CONIA.	ТТРНОП	FEVER.	Int'm'n	r Fever.	DIA	RRHEA.
COUNTIES.	All Causes, 1881.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Deaths	Number of Deaths.	Deaths	Num- ber of Dea's.	Per Cent. t Death from A Cause
Livingston	259	25	9.65	7	2.70	9	8.47			6	2,8
Mackinac	19	2	10,58	2	10.53	1	5.26			1	5.9
Macomb	805	80	9.84	9	2.95	28	9.18	. 1	.33	21	8.8
Manistee	181	13	7.18	10	5.52	5	2.76			9	4.9
Manitou	5		j				j				ļ
Marquette	406	14	3.45	11	2.71	85	8,62	1	.25	27	6.0
Mason	184	12	6.52	5	2.72	2	1.09			8	1.0
Mecosta	297	21	7.07	15	5.05	20	6,78				1
Menominee.	150	18	8,67	4	2.67	8	5.83			4	2.0
Midland	83	7	8.43	1	1.20	3	3.61	6	7.23		
Missaukee	27	1	8,70		l . 	8	1.11	l		1	8.
Monroe	346	89	11.27	18	5.20	24	6.94	1	.29	11	3.
Montcalm	396	86	9.09	18	4.55	19	4.80	l		2	١.
Montmorency	5									i	
Muskegon	462	29	6.28	29	6.28	33	7.14	2	.22	20	4.
Newaygo		15	9.09	111	6,67	7	4.24			5	3.
Oakland	390	55	14.10	25	6.41	18	1.62	1	.26	3	
Oceana	166	6	8.61	2	1.20	8	1.81	2	1.20		
Ogemaw	25	2	8.00	1	4.00	1 1	4.00	1	4.00	1	4.
Ontonagon		Ī		i	5.26	5	2.63			·	
Osceola	127	9	7.09	5	3,94	2	1.57			1	
Oscoda	i	l	9.09			1	9.09			·	l
Otsego		i	4.85			l i	4.85		•••••	1	4.
Ottawa		43	10.24	20	4.76	28	5.48			19	4
Presque Isle	1	2	5.26	1	2.63	_	0.20			1	_
Roscommen	1	1 -		1 .		1	8.33				
Saginaw		106	11.08	49	5.12	48	4.49	1	.10	21	2.
Sanilac		23	7.72	11	3.69	19	6.88	1 1	.34	1 4	1
Schoolcraft.	14	1	7.14	"	3.03	15	0.00	2	14.29	1 -	1 4
Schoolcrait. Shiawassee .	1	1 28	11.02	11	4.83	17	6.69	1 *	14.25	1	
				1	1		1			_	1
St. Clair	464	29	6,25	40	8,62	29	6.25	1 2	.22	12	2
St. Joseph	1		18.79	9	3.88	12	5.17	2	.86	2	'
Tuscola	1		9.88	16	4.65	12	8.49			8	
Van Buren			12.90	14	4.52	15	4.84	1	.32	1	1
Washtenaw.	1	1	12.85	24	5.93	15	3.70			4	١ .
Wayne	1		18.14	67	3.01	68	8.05	8	.36	119	5
Wexford	. 78	4	5.48	3	4.11	7	9.59			. 2	2

TABLE XXVI.—Exhibiting, for the State and Eleven Geographical Divisions of Michigan, by Sex, the Number of Deaths Returned as having occurred at All Ages, from Old Age, of All Aged 70 and Over, and of All Aged Under 5; also the Per Cent. of Deaths from Old Age, of All Aged 70 and Over, and of All Aged Under 5, to Deaths at All Ages, during the Year 1881.

			OLE	AGE.		70 AND	AGED T	INDER 5.
STATE AND GEOGRAPHICAL DIVISIONS.*	SEX.	Deaths at All Ages, 1881.	Number of Deaths.	Per Cent. to Deaths at All Ages, by Geo- graphical Divisions.	Number of Deaths.	Per Cent. to Deaths at All Ages, by Geo- graphical Divisions.	Number of Deaths.	Per Cent. to Deaths at All Ages, by Geo- graphical Divisions.
	Total	19,238	725	3,77	2,233	11.61	7,816	40.6
	Males	10,263	360	3,51	1,287	12.54	4,296	41.80
STATEb	Females	8,910	365	4.10	940	10,55	3,461	38.8
	Unknown	65			6	9.23	59	90.7
	Total	1,084	16	1.48	63	5.81	649	59.8
Access to the second	Males	622	9	1,45	35	5,63	354	56,9
Upper-peninsular	Females	441	7	1.59	23	5,22	279	63.2
	Unknown	21			5	23.81	16	76.1
	Total	517	6	1,16	41	7.93	240	46.4
Northwestern	Males	276	2	.72	26	9.42	132	47.8
Morth Western	Females	239	4	1.67	15	6.28	106	44.3
	Unknown	2					2	100.0
	Total	394	10	2.54	32	8,12	195	49,4
Northern	Males	204	5	2.45	20	9.80	105	51,4
	Females	190	5	2.63	12	6.32	90	47.3
	Total	379	4	1.06	25	6,60	208	54.8
Northeastern	Males	214	1	-47	16	7.48	115	53.7
	Females	165	3	1.82	9	5,45	93	56.8
	Total	2,594	65	2,51	187	7.21	1,227	47.3
Wastons	Males	1,879	25	1.81	99	7.18	682	49.4
Western	Females	1,207	40	8.31	88	7.29	537	44.4
	Unknown	8					8	100.0

^{*} For counties included in each Division, see page 182.

b For counties and townships from which no returns of deaths in 1881 were received, see Exhibit II, page 136; for those in which no deaths occurred, see Exhibit I, page 138.

CAUSES OF DEATH,-OLD AGE, ETC.

TABLE XXVI.—CONTINUED.

			Ori	Agr.	AGE	ver.	AGED 1	Under 5.
GEOGRAPHICAL DIVISIONS.*	SEX.	Deaths at All Ages, 1881.	Number of Deaths.	Per Cent. to Deaths at All Ages, by Geo- graphical Divisions.	Number of Deaths.	Per Cent. to Deaths at All Ages, by Geo- graphical Divisions.	Number of Deaths.	Per Cent. to Deaths at All Ages, by Geo- graphical Divisions.
	[Total	644	13	2.02	49	7.61	253	39,20
and the second	Males	346	5	1.45	29	8.38	144	41.65
Northern-central	Females	296	8	2.70	20	6.76	107	36.10
	Unknown	2					2	100.00
	Total	3,152	102	3.24	244	7.74	1,352	42.89
Daniel Bestern	Males	1,693	54	3, 19	142	8.39	745	44.00
Bay and Eastern	Females	1,451	48	3.31	102	7.03	599	41.28
	Unknown	8					8	100.00
	Total	3,050	108	3.54	393	12.89	1,096	35,93
Cantum	Males	1,526	44	2,88	215	14.09	574	37.61
Central	Females	1,516	64	4.22	178	11.74	514	33,91
	Unknown	8					8	100,00
	Total	1,205	68	5.64	193	16.02	424	35.19
Southwestern	Males	608	41	6.74	110	18.09	221	36,35
Bouthwestern	Females	595	27	4.54	83	13,95	201	33,78
1	Unknown	2					2	100.00
	Total	2,949	197	6.68	598	20,28	832	28.21
Southern-central	Males	1,593	104	6.53	364	22,85	470	29.50
Southern-central	Females	1,348	93	6.90	234	17.36	354	26,26
	Unknown	8					8	100.00
0+0	Total	3,270	136	4.16	408	12.48	1,340	40.98
tautherstown.	Males	1,802	70	3.88	231	12,82	754	41.84
Southeastern	Females	1,462	66	4.51	176	12.04	581	39.74
	Unknown	6			1	16,67	5	83,33

 $[\]bullet$ For counties included in each Division, see page 162. 36—1881.

TABLE XXVII.—Exhibiting, for the State and Counties of Michigan, the Number of Deaths Returned as having occurred at All Ages, from Old Age, of All Aged 70 and Over, and of All Aged Under 5; also the Per Cent. of Deaths from Old Age, of All Aged 70 and Over, and of All Aged under 5, to Deaths at All Ages, for the Year 1881.

	ALL AGES.	OLD	Age.	AGED 70	ND OVER.	AGED I	INDER 5.
STATE AND COUNTIES.	Number of Deaths.	Number of Deaths.	Per Ct. to Deaths at All Ages.	Number of Deaths.	Per Ct. to Deaths at All Ages.	Number of Deaths.	Per Ct. to Death at All Ages.
STATE	19,238	725	3.77	2,283	31.61	7,816	40.63
Alcona	12			1	K.33	6	50.0
Allegan	412	30	7.28	59	14.32	153	37.1
Alpena	114	1	.88	10	8.77	71	62.0
Antrim	75	1	1,88	6	8,00	29	38.6
Baraga	18					8	44.4
Barry	290	9	3.10	25	12:07	108	37.2
Bay	541	4	.74	10	1.85	275	50.8
Benzie	65			11	16,92	22	33.8
Berrien	307	16	5.21	59	19.22	97	31.0
Branch	255	15	5.88	66	25,88	61	23,9
Calhoun	426	29	6.81	92	21.60	118	27.7
Cass	176	10	5.68	32	18,18	61	34.6
Charlevoix	54	3	5.56	7	12.96	26	48.1
Cheboygan	109		0.00	6	5,50	60	55.0
Chippewa	10	1	10.00	1	10.00	5	50.0
Clare	66	2	3.03	9	13,64	19	28.7
Clinton	276	9	3.26	40	14.49	96	34.7
Crawford	16		0.20	40	14.40	7	43.7
Delta	83	***************************************	*********	5	6.02	40	48.1
Eaton	356	10	2.81	47	13.20	0.00	38.7
Emmet	79	4	0.00	9	1	138	-
Genesee	409	17	5.06		11.39	43	54.4
Gladwin	799	14	4.16	69	16.87	130	31.7
Grand Traverse	10 70		1 40	1	10.00	1	10.0
	212	7	1.43	8 22	11.43	27	38.5
GratiotHillsdale	372	32	3.30	85	10.38	96	45.2
	243	5	8.60	8	22.85	75	20.1
Houghton	243	8	2.06	1/3/1	3.29	179	73.6
Huron	298	1	3,31	27	11.16	103	42.5
Ingham	1300	13	4.36	33	11.07	89	29.8
Ionia	300	12	4.00	34	11.33	101	33.6
Iosco	174	2	1.15	6	3.45	92	52,8
Isabella	176	7.	3,98	15	8.52	81	46.00
Isle Royal	407		*******		*****	***********	**********
Jackson	407	20	4.91	60	14.74	159	39.07
Kalkaska	437	22	5.03	64	14.65	132	30.21 42.11
	38	********	22	1	2.63	16	10000
Kent	1,022		110	71	6,95	478	46,77
Keweenaw	Jou					68	55.74 43.75
Lake						21	
Lapeer	l.					128	41.80

[.] No returns from county

TABLE XXVII.—CONTINUED.

	ALL AGES.	OLD	Age.	Aged 70	ND OVER.	Aged I	INDER 5.
COUNTIES.	Number of Deaths,	Number of Deaths.	Per Ct. to Deaths at All Ages.	Number of Deaths.	Per Ct. to Deaths at All Ages.	Number of Deaths.	Per Ct. to Deaths at All Ages.
0aw	96	2	2.08	S	8.33	29	30.21
66	415	31	7,47	100	24.10	114	27.47
ston	259	10	3,86	48	18.53	83	32,05
nac	19					6	31.59
ab	305	14	4.59	50	16.39	112	36,79
tee	181	2	1.10	7	3,87	109	60.23
ou	5	1	20,00	2	40,00	2	40.00
ette	406	6	1.48	10	2.46	245	60,34
	184	5	2.72	14	7.61	88	47.88
ta	297	2	.67	9	3,03	112	37.71
ninee	150	2	1,33	19	12.67	85	56,67
idb	83	2	2.41	15	18.07	32	38,50
1kee	27			2	7.41	13	48,10
e	346	14	4.05	52	15,03	138	39.88
alm	396	12	3,03	24	8,06	169	42.68
norency	5				454532444	3	60,00
gon	462	4	.87	19	4.11	252	54,50
vgo	165	2	1.21	6	3.64	61	37.01
ndb	390	20	5.18	82	21.03	88	22.56
8	166		8,61	11	6.63	82	49.40
.w	25			4	18.00	14	56,00
agon	19		17211007007	3	15.79	7	36,84
A	127	2	1,57	10	7.87	64	50.80
A	11						45,45
2	23	2	8.70	3	13.04	14	60.87
A	420	19	4.52	50	11.90	181	43.10
ue Isle	38	1	2.63	4	10.53	17	44.74
mmon	12	2	2.00		10,00	8	66,67
W	957	30	3,13	60	6.27	404	42.29
C	298	7	2.35	17	5.70	117	39.20
craft	14	1	7.14	3	21.43	6	42.86
assee	254	9	3,54	41	16,14	86	33,86
air	464	30	6.47	63	13.58	175	37.79
seph	232	9	3.88	38	16.38	73	1
la	344	13	3.78	28	8.14	100	31.47
Buren	310	12	3.87	43	13.87	150	43.60
tenaw	405	39	9,63	93	22.96	113	36.45
	2,229	88	3.95	224	6.024	100	24.69
e	1.0	88	8.90		10.05	1,002	44.95
ord	73		********	3	4.11	38	52.05

TABLE XXVIII,—Consumption.—Exhibiting, for the Year and Months, by Sex, The Conjugal Condition, Occupation, and Age in Periods of Years of All Persons Returned as having Died from Consumption in Michigan during the Year ending December 31, 1881.

0 1	Unknown.	25	624	20	1	10	17	의	60	1	01	16	=	04	9	20	4 10	9	-	-
	19Vo bna 08	18	50	00	3 13	-	00	6 1	-	2	-	1 10	-	01	2	+	30	3	-	7
	1 75 to 80.	62 44	35 18	-	23 23	1	24 23	133	1	11 16	:	88 21	92 12	*	01	- A	000	-	-	-
81.	1 65 to 70.	73 6	55	7	13	-	350	500	-	0	-	43	55	-	-	-	01	9	-	01
1.8	60 to 65.	81	2 2	9	53	1	04	10	60	14	1	61	89	00	7	1	10	-	1	0
-	.09 01 55	80	29	00	17	-	453	27	-	14	-	22	250	01	60	:	6	-	1	-
A H	1 20 to 25.	98	83	0	10	20	38	52	20	-	-	48	#	01	00	01	13	5	60	90
YEARS,-1881.	45 to 50.	108	8	13	10	-	64	20	10	00	1	44	35	00	64	1	13	9	*	20
OF	40 10 45.	193	106	16	2	-	67	57	2	7	-	19	40	11	1	-	14	11	01	1
S O O	.01 of 68	151	118	21	1	*	77	69	4	-	-	74	49	18	63	*	16	10	*	-
PERIODS	30 to 35.	171	120	48	08	1	96	78	17	-	1	75	42	31	1	3	21	14	7	
	25 to 30.	251	143	102	00	60	133	89	41	-	01	118	54	61	63	1	25	0	315	-
S IN	20 to 25.	291	96	189	-	9	173	82	86	1	7	118	12	103	-	Ca	40	7	30	
AGRS	15 to 20.	196	18	172	1	10	134	17	115	1	61	61	-	67	1	00	36	00	31	
	10 10 10.	8	- 1	38	1	- 1	81	- (65		- 1	55	- (13	-5	- 1	9	1	12	
	.01 of 6	27	1	27	1	- 1	10	- 2	10	1	-1	17	- 1	17	3	:	9	:	9	
	Under 5.	120	1	120	-	1	26	1	26	1	1	19	1	64	1	1	1	1	1	
	SEX AND		TOTAL DEATES	FROM	CONSUMPTION.				FEMALES.					MALES.				Occupations	Unknown,	Total.
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_	CONJUGAL CONDITION.	1,954 Total	1,001 Married To	774 Single	148 Widowed. C.	31 Unknown.	1,049 Total]	567 Married	372 Single	96 Widowed.	14 Unknown.	905 Total]	434 Married	402 Single	52 Widowed.	17 Unknown.	255 Total	86 Married Oc	118 Single	36 Widowed
	YEAR, CONJUGAL 1881. CONDITION.	7 1,954 Total]	Married	774	Widowed.		4 1,049 Total]		372	96	1 14 Unknown.	3 905 Total	3 434 Married	-	52	17		Married	118 Single	1 38 Widowed
	CONJUGAL CONDITION.	1,954	1,001 Married	74 774 Single }	Widowed.	31	-	567	34 372 Single		14	902	434	40 402 Single }	5 52 Widowed.	17		86 Married		o se Widowed
	TEAR, CONJUGAL 1881. CONDITION.	7 1,954	6 1,001 Married	477	148 Widowed.	1 31	4	3 567	372	96	14	3 905	3 434	-	52	17	94	10 1 86 Married	118 Single	1 6 38 Widowed
	December. Unknown. 1881. Condition.	198 7 1,954	101 6 1,001 Married	74 774	21 148 Widowed.	2 1 31	103 4 1	52 3 567	84 372	16 96	14	95 3 905	49 3 434	40	5 52	17	19 26 2	5 10 1 86 Married	9 118 Single	2 1 6 38 Widowed
1	Мочетьет. Песетьет. Оомытия. Оомытия. Оомытия.	163 198 7 1,954	74 101 6 1,001 Married	73 74 774	13 21 148 Widowed.	8 2 1 31	81 103 4 1	49 52 3 567	24 84 372	8 16 96	14	82 95 3 905	25 49 3 434	49 40 4	5 5 52	3 1 17	19 26 2	5 10 1 86 Married	13 9 118 Single	1 6 86
1881.	Осторет. Тиментова. Тиментова. Тиментова. Тиментова. Тиментова. Тиментова. Тиментова. Тиментова.	164 163 198 7 1,954	76. 74 101 6 1,001 Married	75 73 74 774	11 13 21 148 Widowed.	2 3 2 1 31	93 81 103 4 1	45 49 52 3 567	41 24 34 372	7 8 16 96	14	71 82 95 3 905	31 25 49 3 434	84 49 40	5 5 52	3 1 17	20 19 26 2	5 10 1 86 Married	13 9 118 Single	1 6 86
8, 1881.	Берtеmber. Мочетьет. Точетьет. Така, Сомыт. Сомыт. Сомыт. Сомыт. Сомыт.	155 164 163 198 7 1,954	84 76 74 101 6 1,001 Married	61 66 60 75 73 74 774	8 16 6 11 13 21 148 Widowed.	4 1 5 2 8 2 1 31	91 84 93 93 81 103 4 1	49 42 55 45 49 52 3 567	31 33 32 41 24 34 372	2 7 8 16 96	14	62 71 82 95 3 905	37 33 29 31 25 49 3 434	30 33 28 34 49 40	7 4 4 5 5 52	1 1 2 8 1 17	Ju 19 17 20 19 26 2	7 4 4 6 5 10 1 86 Married	9 10 13 9 118 Single	1 6 86
- 00	August. September. December. December. Tan, Convergen.	146 159 155 155 164 163 198 7 1,954	75 84 76 74 101 6 1,001 Married	52 61 66 60 75 73 74 774	11 8 16 6 11 13 21 148 Widowed.	2 4 1 5 2 8 2 1 31	91 84 93 93 81 103 4 1	49 42 55 45 49 52 3 567	25 31 33 32 41 24 34 372	6 8 9 2 7 8 16 96	8 4 1 1 14	66 68 74 62 71 82 95 3 905	81 37 33 29 31 25 49 3 434	27 80 83 28 84 49 40	6 7 4 4 5 5 52	2 1 1 2 8 1 17	Ju 19 17 20 19 26 2	7 4 4 6 5 10 1 86 Married	9 10 13 9 118 Single	1 6 86
МОМТИВ, 1881.	August. September. December. December. Takak Tovember. Takak Tovember. Takak	180 146 159 158 155 164 163 198 7 1,954	102 81 86 75 84 76 74 101 6 1,001 Married	67 52 61 66 60 75 73 74 774	11 11 8 16 6 11 13 21 148 Widowed.	2 4 1 5 2 8 2 1 31	91 84 93 93 81 103 4 1	49 42 55 45 49 52 3 567	25 31 33 32 41 24 34 372	8 9 2 7 8 16 96	8 4 1 1 14	66 68 74 62 71 82 95 3 905	81 37 33 29 31 25 49 3 434	27 80 83 28 84 49 40	7 4 4 5 5 52	2 1 1 2 8 1 17	Ju 19 17 20 19 26 2	7 4 4 6 5 10 1 86 Married	9 10 13 9 118 Single	1 6 86
- 00	June, July. August. September. December. December. Tovom. Tovom. Only and and and and and and and and and and	206 180 146 159 158 155 164 163 198 7 1,954	108 102 81 86 75 84 76 74 101 6 1,001 Married	81 67 52 61 66 60 75 73 74 774	11 11 8 16 6 11 13 21 148 Widowed.	2 4 1 5 2 8 2 1 31	91 84 93 93 81 103 4 1	49 42 55 45 49 52 3 567	25 31 33 32 41 24 34 372	6 8 9 2 7 8 16 96	8 4 1 1 14	66 68 74 62 71 82 95 3 905	81 37 33 29 31 25 49 3 434	27 80 83 28 84 49 40	6 7 4 4 5 5 52	2 1 1 2 8 1 17	Ju 19 17 20 19 26 2	7 4 4 6 5 10 1 86 Married	9 10 13 9 118 Single	1 6 86
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MONTHS,	April. May. June. June. Juny. August. September. October. December. December. Tayan. October. October. October. October. October. October. October.	206 180 146 159 158 155 164 163 198 7 1,954	co 86 108 102 81 86 75 84 76 74 101 6 1,001 Married	90 81 67 52 61 66 60 75 73 74 774	11 11 8 16 6 11 13 21 148 Widowed.	2 4 1 5 2 8 2 1 31	91 84 93 93 81 103 4 1	49 42 55 45 49 52 3 567	25 31 33 32 41 24 34 372	6 8 9 2 7 8 16 96	8 4 1 1 14	66 68 74 62 71 82 95 3 905	81 37 33 29 31 25 49 3 434	27 80 83 28 84 49 40	6 7 4 4 5 5 52	2 1 1 2 8 1 17	Ju 19 17 20 19 26 2	7 4 4 6 5 10 1 86 Married	9 10 13 9 118 Single	1 6 86

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13 12 9 13 2 190 Total	26 37 20 32 - 303 Single
1 1 2 1 1 15 Unknown. 2 4 6 5 6 1 63 Married 3 2 2 4 20 Widowed. 10 4 8 10 13 20 Total 11 8 10 13 20 Total 12 2 4 20 Widowed. 13 138 138 144 144 172 5 1,699 Total 15 51 65 60 65 656 Single 16 Widowed 17 80 70 69 91 5 915 Married 18 9 12 15 112 Widowed 19 9 12 15 112 Widowed 10 Widowed 11 3 9 12 15 112 Widowed 12 80 81 72 90 9 889 Total	28 26 37 20 32 - 303 Single
16 9 13 12 9 13 2 100 Tokal	21 28 26 37 20 32 - 303 Single
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16 11 16 9 13 12 9 13 2 100 Tokal	\$22 21 28 26 37 20 32 - 303 Single
21 16 11 16 9 13 12 9 13 2 100 Total	22 32 22 21 28 26 37 20 32 - 303 Single
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1881.
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-Deaths f
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XXVIII.—Co
TABLE XXVIII

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100	92 10 40	52	11	00	+	1	9	7	64	1	-	6	-	10	-	1	*	Q1	-	-	16	
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TABLE XXVIII. -- CONTINUED. -- Deaths from Consumption, 1881.

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-	CONDITION.	1	1	1	-	Total]	Married	1	Widowed -	Unknown.	Married	Total	Married	Single	Unknown.	-	Total	Single	Widowed.	Total]	1	Single
		3 Single Fu	2 Single F	1 Married Fr	41	28 Total]	20 Married	5 Single	2 Widowed.	1 Unknown.	3 Married	10 Total]	5 Married	4 Single	1 Unknown.	20	2 Total	I Single	1 Wldowed.	7 Total]	4 Married 1	3 Single
	CONDITION.	Single	Single	Married	1	28 Total]	20 Married	Single		1 Unknown.]	3 Married	10 Total]		- 4 Single	1 Unknown.		2 Total	I Single	1 Widowed	- 7 Total]	1	- alsingle
	YEAR, CONJUGAL 1881, CONDITION.	3 Single	2 Single	Married		5 28 Total	98	5 Single		1	80		10	*	1 Unknown.	2 - 20		-	1 Widowed	1 7 Total]	1	l alsingle
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TABLE XXVIII. -CONTINUED. - Deaths from Consumption, 1881.

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	SEX AND	Silver Gilders,	Stave-makers,	Stone-cutters.		Stone-masons.			Tinners.		Upholsterers.		Wagon-makers.		CLASS IV.		Davions	41,001.8,			Olgar-makers.
	9000	SIIV	Sta	Stor	_	Stor	_	_		_	Uph	_	Wage		OL		2	-	_	-	Olga
	COMPUTION.	Single Silv	Married Star	Married Stor	Total]	Married Stor	Single	Total]	Married 7	Single]	Single Uph	3 Total	Married	Single		Total]	Married	Singlo	Widowed_	Total]	Married Olga
			-	1	4 Total]	1	1 Single	4 Total]		1 Single]	1	3 Total]	:	1 Single	25 OL	7 Total]	-	-	2 Widowed_]	6 Total	
	COMPUTION.		-	1	4 Total	1	1 Single	4 Total]		1 Single]	1	3 Total)	Married	1 Single		7 Total]	-	-	. 2 Widowed.	6 Total]	
	YEAR, CONTUGAL 1881. CONDITION.	1 Single	1 Married	2 Married	4	3 Married	1	*	3 Married	1	1 Single	63	2 Married		25	17	-	2 Single	64	9	
	Unknown. Tran. Conjugal.	1 Single	1 Married	2 Married	4	3 Married	1	*	3 Married	1	1 Single	1	2 Married		25	1 1	8 Married	2 Single	64	9	
	December. December. December.	1 Single	1 Married	2 Married	4	3 Married	1	*	3 Married	1	1 Single	1	2 Married		25	17	-	2 Single	64	9	
	Дочетьег. Тометьег. Тометьег. Тометьег. Тометьег. Тометьег.	1 Single	1 Married	2 Married	4	3 Married	1	*	3 Married	1	1 Single	1	2 Married		1 6 25	1 1	8 Married	2 Single	64	9	
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EXHIBIT Q.—The Average Age of the Inhabitants of Michigan, of both Sexes, of each Sex, and the difference between the Sexes. for All Returned as having Died from Consumptian during the Years 1871 to 1881, inclusive, for all returned as having died from All Causes during the years 1871 to 1881, inclusive; as shown by the Registration Returns; for All Aged 20 and Over whose Ages and Occupations were stated in the Registration Returns of Deaths for the Years 1871 to 1881, inclusive, and for the Native and Foreign-born Inhabitants Returned as having Died during the Years 1871 to 1881, inclusive.

	YEAR			EIN YE	TEAR.
	ENDING:	Total,	Males,	Ye- maies.	Excess, Malee.
Beaths, as shown by Registration Returns	In	25,63	26.78	24.50	2.28
All aged 20 and over whose occupations were stated in Registration Returns of Deaths	} Dec. 81, 1841. {	51.44	52.79	46.45	6.34
Deaths, as shown by Registration Returns) F	24,17 35,05	95,89 39,10	21.17	1,92 7,91
Deaths from Consumption, by Registration Returns	Dec. 81, 1872.	50.73			4.82
Registration Returns of Deaths. All who died aged 20 years and over, as shown by Regis-		49,72	51.67	47.42	4.25
Deaths, as shown by Registration Returns	2	31,20	31,95	30.14	1.81
Deaths of Native-born Inhabitants, as shown by Regis- tration Returns.	Dec. 31, 1873{	27,25	1000	1000	1,05
Deaths of Foreign-born Inhabitants, as shown by Regis tration Returns.		43,87	40,68		-1.67
Deaths from Consumption, by Registration Returns		37.81	40,20	35,77	4.43
Registration Returns of Deaths		50.17	56.51	48.27	8.24
tration Returns	j	49,87	51.48	47.65	3.82
Deaths, as shown by Registration Returns	1	25.33	25.78	24.09	.83
Deaths of Foreign-born Inhabitants, as shown by Regis-		20,26	23.59	20,25	3.74
Deaths from Consumption, by Registration Returns	Dec. 31, 1574	47,15 36,48		46 13 33,44	1.86 6.46
All aged 26 and over whose occupations were stated in Registration Returns of Deaths	1	50,77	52.70	48.22	4.47
All who died aged 20 years and over, as shown by Registration Returns	1	50,89	52,84	48.72	4.11
Deaths, as shown by Registration Returns	1 (25,33	96,31	24.38	1,95
Deaths of Native-born Inhabitants, as shown by Regis- tration Returns	1 1	20,17	90.73	19,58	,55
Deaths of Foreign-born Inhabitants, as shown by Regis- tration Returns		46,96	45,68 38,19	44.49 31.58	4.19 4.61
Deaths from Consumption, by Registration Returns All aged 20 and over, whose Occupations were stated in	Dec. 31, 1875.	51,07	53,29	100	5,42
Registration Returns of Deaths		50,63	32.79		4.73
Deaths of Native born Inhabitants aged 20 years and	1	50,63	53.86	67,61	6.93
over, as shown by Registration Returns. Deaths of Foreign born Inhabitants aged 20 years and		50,77	52.37	43.54	3,80
over, as shown by Registration Returns	, (25,83	20,79		1.75
Deaths of Native-born Inhabitants, as shown by Regis- tration Returns.	1	20.86	21,31		.78
Deaths of Foreign-born Inhabitants, as shown by Regis- tration Returns.	1	47.23			2.23
Deaths from Consumption, by Registration Returns	- Dec. 11, 1578.	32.70	1000		6,80
Registration Returns of Deaths All who died aged 20 years and over, archang by Death		31.8	Name of	1	1
Deaths of Satise-horn Inhabitants and E page to	Į.	-11	10 SE	N DOM:	1
over, as shown by Registration Returns		11	Alla	70 31.5	1
Deaths of Farriga-been Tahab mute aged II poors to over, as abown by Registration Referes			-	-	1

EXHIBIT Q .- CONTINUED.

	YEAR	AVER	AGE AG	EIN YE	YEAR.
	ENDING:	Total.	Males.	Fe-	Excess,
Deaths, as shown by Registration Returns) [25,89	26.44	25.44	1.00
Deaths of Native-born Inhabitants, as shown by Regis- tration Returns		20.30	20,22	20.57	35
Deaths of Foreign-born Inhabitants, as shown by Regis- tration Returns		49.81	50.31	48.00	2.31
Deaths from Consumption, by Registration Returns All aged 20 and over whose occupations were stated in	Dec. 31, 1877.	36,34	39,42	33.94	5.48
Registration Returns of Deaths		51.71	53.89	49.55	4.34
tration Returns		51.88	54.03	49,65	4.38
over, as shown by Registration Returns	i	51.25	54.13	48.43	5.70
over, as shown by Registration Returns	j	53,01	53.95	51.78	2.17
Deaths as shown by Registration Returns.) [26.41	26.99	25.99	1,00
Deaths of Native-born Inhabitants, as shown by Registration Returns.		20,74	21,20	21.10	.10
Deaths of Foreign-born Inhabitants, as shown by Regis- tration Returns		49.75	50.96	48.85	2.11
Detths from Consumption, by Registration Returns All aged 20 and over whose occupations were stated in	Dec. 31, 1878.	36,67	40.95	88.25	7.70
Registration Returns of Deaths	200,000	52,45	54.21	50.41	3.80
tration Returns Deaths of Native-born Inhabitants aged 20 years and	1	52,40	54.17	50,57	3.60
over, as shown by Registration Returns Deaths of Foreign-born Inhabitants aged 20 years and		51.01	54.20	49.57	4.6
over, as shown by Registration Returns	1	53.84	54.88	83.15	1,78
Deaths as shown by Registration Returns Deaths of Native-born Inhabitants, as shown by Regis-	1	25,76	26.31	25.28	1.03
tration Returns		20.07	19,94	20,32	+.38
istration Returns	1	49,55	49,21	47.17	2,0
Deaths from Consumption, by Registration Returns All Aged 20 and over whose occupations were stated in	Dec. 31, 1879.	35.99	39,30	33.12	6, 18
Registration Returns of Deaths	20000	52,29	54.78		5.3
Deaths of Native-born Inhabitants aged 20 years and	1	52,46	54.67	50.05	4.69
over, as shown by Registration Returns		51.24	54.19	48,43	5.76
over, as shown by Registration Returns	1 i	54.23	52.76	52.86	10
Deaths, as shown by Registration Returns Deaths of Native-born Inhabitants, as shown by Regis-	1	25.45	26.06	24.88	1.18
tration Returns. Deaths of Foreign born Inhabitants, as shown by Reg-		19.74	19,78	19.89	10
istration Returns		47.72	48,98	45.04	3,89
All aged 20 and over whose Occupations were stated in	Dec. 31, 1880.	35, 16	38.09	32,67	5.42
Registration Returns of Deaths		52.40	53,59	50.50	3.0:
istration Returns	1	52,50	54.23	50.52	3.71
over, as shown by Registration Returns Deaths of Foreign born Inhabitants, aged 20 years and		51.54	53.84	49.20	4.64
over, as shown by Registration Returns	1	54.13	55.05	51.60	3,40
Deaths, as shown by Registration Returns Deaths of Native-born Inhabitants, as shown by Reg-) [24.08	24.55	23,70	,85
Istration Returns Deaths of Foreign-born Inhabitants, as shown by Reg-		18.86	18,74	19.14	40
Istration Returns		45.43	46.03	44.66	1.37
Deaths from Consumption, by Registration Returns All aged 20 and over whose occupations were stated in	} Dec. 31, 1881.	35.88	37,04	83,93	3.11
Registration Returns of Deaths		51.61	53.12	49.90	3,22
Deaths of Native born Inhabitants aged 20 years and		51.35	52,60	49,90	2.70
over, as shown by Registration Returns		50.37	52.38	48.31	4.07
over, as shown by Registration Returns) (52,76	52.80	52.74	.00

OCCUPATIONS.

The relation of deaths to occupations in Michigan cannot be traced with the most satisfactory degree of accuracy. The cause of this is the fact that individuals in this country seldom continue at one occupation any considerable time. In Europe the subject is much better studied, generations often remaining at a particular occupation.

Table XXIX., however, shows some interesting facts. Among the classes, cultivators of the earth are returned as having the greatest average duration

of life.

TABLE XXIX.—Exhibiting the Number and the Aggregate and Average Ages of All Decedents in Michigan Aged 20 Years and Over, and of those whose Occupations were not Specified; also, by Classified Occupations, the Number and Aggregate and Average Ages of Decedents, Aged 20 Years and Over, whose Occupations were returned, One-half of a Year being added to Age of each Person in place of Months and Days excluded.

CLASS.	OCCUPATIONS.—1881.	Number	AGE IN TEARS AND 100ths.		
		Persons.	Aggregate.	Average	
	ALL AGED 20 YEARS AND OVER,	7,926	400,099,00	51.61	
	ALL SPECIFIED OCCUPATIONS,—AGED 20 YEARS AND OVER.	7,042	864, 165,00	51.71	
	OCCUPATIONS UNSPECIFIED,—AGED 20 YEARS AND OVER	884	44,934.00	50.83	
I.	CULTIVATORS OF THE EARTH	1,879	110,358 00	58.73	
II.	ACTIVE MECHANICS ABROAD	211	11,095.00	52.56	
III.	ACTIVE MECHANICS IN SHOPS	237	13,620.50	57.47	
IV.	INACTIVE MECHANICS IN SHOPS	132	6,577.50	49.83	
v.	LABORERS,—NO SPECIAL TRADES	716	80,494.50	42.59	
ŸI.	AGENTS, LABORERS ABROAD, ETC	156	7,006.50	44.91	
VII.	SEAFABING MEN	89	1,298.00	40,56	
VIII.	SOLDIERS	8	119.00	39,67	
IX.	Business Men	247	11,719.50	47.45	
X.	PROFESSIONAL MEN	123	6,482.00	52.70	
XI.	UNEMPLOYED	124	7,149.00	60.07	
XII.	FEWALES	8,701	184,672.50	49,90	
ī.	CULTIVATORS OF THE EARTH	1,879	110,859.00	58.73	
	Farmers	1,849	108,832.00	58,86	
	Farm Laborers	8	240.00	80.00	
٠	Farmers' Sons	8	68.00	22,67	
	Fruit-growers	1	69.50	69.50	
	Gardeners	17	1,075 00	63,24	
	Retired Farmers	1	73.50	73,50	

TABLE XXIX.—Continued.—Occupations of Decedents in 1881.

	OCCUPATIONS,—1881.	Number	AGE IN YEARS AND 100ths.		
		Persons.	Aggregate.	Average	
	ACTIVE MECHANICS ABROAD	211	11,095.00	52.5	
I	Brick-layers	2	105.00	52,5	
ı	Carpenters	135	7,484.00	55.0	
١	Joiners	3	151.00	50.8	
١	Masons	21	3,141.00	54.8	
I	Painters	88	1,647 00	48.8	
l	Ship-carponters	5	208.00	41.9	
	Stone-masons	7	411.00	58.7	
	ACTIVE MECHANICS IN SHOPS	237	18,620,50	57,4	
ı	Bakers	6	251,00	41.8	
١	Basket-makers	1	100.50	100.5	
١	Blacksmiths.:	48	2,590.00	53.	
١	Boiler-makers	4	133.00	83.9	
I	Browers	7	326,00	46.	
١	Brick-makers	2	119.00	59.	
l	Broom-makers	1	50.50	50.	
ı	Cabinet-makers	9	405.00	45.	
ŀ	Carriage-makers	1	67.50	67.	
l	Carvers	ı	26.50	26,	
	Chair-makers	1	51.50	51.	
l	Confectioners	8	84.00	28.	
ļ	Cooks	4	209.00	52.	
١	Coopers	21	1,218.00	57.	
١	Coppersmiths	1	91.50	91.	
ļ	Dyers	1	74.50	74.	
	Engineers	21	968.00	46.	
ı	Feather Renovators	1	21,50	21.	
١	Finishers	2	68.00	34.	
l	Foundrymen	1	28,50	28.	
l	Gunsmiths	2	142.00	71.	
ļ	Hoop-makers	1	28.50	28.	
l	Machinists	15	718.00	47.	
١	Marble-polishers	1	71.50	71.	
١	Mochanica	27	1,527.00	56.	
١	Millers	17	927.00	54.	
۱	Milwrights	2	188 00	69.	
۱	Molders	11	410.00	37.5	

TABLE XXIX.—CONTINUED.—Occupations of Decedents in 1881.

CLASS.	OCCUPATIONS,—1981.	Number of	AGE IN YEARS AND JOUCHS.		
		Persons.	Aggregate.	Average	
III.	ACTIVE MECHANICS IN SHOPS.—(Continued.)				
	Pattern-makers	8	179.00	59.6	
	Plasterers	5	225.00	45,0	
	Plumbers	1	24.50	24.5	
	Powder-makers	10	258.00	25.8	
	Saw-makers	1	70.50	70.8	
	Sawyers	7	253,00	36.1	
	Shingle-sawyers	1	82.50	82.5	
	Show-case Makers	1	- 87.50	87.5	
	Soap-makers	2	54.00	27.0	
	Stone-cutters	4	165.00	41.9	
	Stove-mounters	1	61.50	61.5	
	Tanners	1	90,50	90.8	
	Tinsmiths	9	325.00	86.1	
	Umbrella-makers	1	62,50	62.4	
	Upholsterers	8	97.60	82.1	
	Wagon makers	10	500.00	50.0	
	Weavers	2	153.00	76.8	
-	Wheelwrights	1	86.50	86.8	
	Whitewashers	1	78,50	78.1	
	Wood-turners	1	41.50	41.8	
IV.	INACTIVE MECHANICS IN SHOPS	132	6,577.50	49.	
	Barbers	17	692,00	40.	
	Bookbinders	1	58.50	58.8	
	Cigar-makers	18	410.00	81.8	
	Cobblers	2	148,00	74.0	
	Glass-platers	1	53.50	53,8	
	Harness-makers	11	519.00	47.	
	Jewelers	7	228.00	81.8	
	Lithographers	1	22.50	22.5	
	Printers	10	871.00	87.	
	Saddlers	1	94,50	94.	
	Shoe-makers.	42	2,604.00	62.0	
	Silver-gilders	1	24,50	24.1	
	Tailors	23	1.822.00	67.4	
	Telegraph Operators.	2	45.00	22.5	

TABLE XXIX.—Continued.—Occupations of Decedents in 1881.

.A88.	OCCUPATIONS.—1881.	Number of	AGE IN YEARS AND 100ths.		
		Persons.	Aggregate.	Average.	
<u>v.</u>	LABORERS-NO SPECIAL TRADES	716	80,494.50	42.59	
	Bridge Tenders	1	52.50	52,50	
	Choppers	2	81.00	40.50	
	Coal Miners.	1	89.50	89.50	
	Firemen	6	284.00	89.00	
	Janitors	1	58,50	58.50	
	Laborers	617	26,713.00	48.29	
	Log-drivers	1	24.50	24.50	
	Log-cutters	2	52.00	26,00	
	Loggers	5	167.00	88,40	
	Log-scalers	1	82.50	82,50	
	Millmen	1	27.50	27.50	
	Miners	65	2,562.00	89.42	
	Miscellaneous	1	40.50	40.50	
	Oilers in Flour Milis	1	85.50	85,50	
	Porters	2	68.00	84.00	
	Rivermen	1	26.50	26,50	
	Saw-filers	1	54.50	54,50	
	Servants	2	70.00	35,00	
	Walters	2	74.00	87.00	
	Well-hands	1	22.50	22.50	
	Woodsmen	2	59.00	29.50	
VI.	AGENTS, LABORERS ABROAD, ETC.,	156	7,008.50	44.91	
	Agents	2	100.00	50.00	
	Baggage-masters	1	29.50	29.50	
	Bar-tenders	4	109.00	27,25	
	Brakemen	7	170.00	24,29	
	Butchers	17	817,00	48,06	
	Commercial Travelers	4	181.00	45.25	
i	Conductors	5	158,00	81.60	
	Deputy Sheriffs	4	191.00	47.75	
	Draymen	5	276,00	55, 20	
	Drovers	4	231.00	69.50	
	Farriers	2	126.00	68.00	
	Foremen in Mills	1	41.50	41,50	
	Hackmen	1	42.50	42.50	
	Horse Trainers	1	52.50	52.50	

TABLE XXIX.—Continued.—Occupations of Decedents in 1881.

CLASS.	OCCUPATIONS,—1881	Number of	AGE IN YEARS AND 100ths.	
UDASS.	00001211030,-102	Persons.	Aggregate.	Averag
VI.	AGENTS, LABORERS ABROAD, ETC.—(Continued.)			
	Hostlers	1	55,50	55.
	Hunters	8	182.00	60.
	Liverymen	2	53.00	26.
	Lumbermen	36	1,681.00	48
	Mail-carriers	. 1	50,50	50
	Milk-peddlers	2	138.00	69
	Night-watchmen	1	20,50	20
	Peddlers	10	447.00	
	R. R. Agents	1	58,50	56
	R. R. Conductors	1	29.50	29
	R. B. Employes	7	295.00	49
	R. R. Laborers	2	46.00	91
	Railroaders	5	216.00	
	Section Foremen	1	68.50	6
	Station Agents	1	29.50	2
	Switchmen.	-	93.00	2
		1	83.50	8
	Tallymen	14	714.00	5
	Teamsters	1	48.50	4
	Ticket Inspectors	1	60.50	6
	Time-keepers	_	74.50	7
	Toll-gate Keepers	1	1	1
	Turners	. 1	40.50	40
	Watchmen	1	43.50	4
VII.	SEAFARING MEN	82	1,298.00	4
	Boatmen	1	45.50	4
	Captains	1	69.50	61
	Deck Hands	1	85.50	84
	Fishermen	4	226,00	54
	Sailors	24	878.00	34
	Steamboat Captains	1	43,50	4
VIII.	SOLDIERS	8	119.00	8
IX.	BUSINESS MEN	247	11,719.50	41
	Accountants	1	29.50	25
	Bankers	8	518.00	64
	Bank Tellers	1	23.50	22

TABLE XXIX.—CONTINUED.—Occupations of Decedents in 1881.

LA58.	OCCUPATIONS,—1881.	Number of	AGE IN YEARS AT 100ths.	
		Persons.	Aggregate.	Average.
IX.	Business Men—(Continued.)			
	Boarding-house Keepers	1	51.50	51.50
	Book-keepers	14	518.00	87.00
	Builders	5	351.00	70.20
	Capitalists	1	52.50	52.50
	Caring for Property	1	64.50	64.5
	Cigar Manufacturers	2	101.00	50.5
	Civil Officers	1	34.50	84.5
	Clerks	85	1,202.00	84.8
	Clothiers	2	178,00	89,0
	Collectors	1	66,50	66.5
	Commission Merchants	1	57.50	57.50
	Contractors	1	59.50	59.5
	Custom-house Officers	1	71.50	71.50
	Dealers in Second-hand Goods	1	41.50	41.5
	Deputy County Clerks	1	49.50	49.5
	Drapers	1	87.50	87.5
	Druggists	9	336,00	87.8
	Ex-County Treasurers	1	47.50	47.5
	Expressmen	2	87.00	43.5
	Furniture Dealers	1	21.50	21.5
	Grocers	19	848.00	44.6
	Hotel-keepers	18	898.00	49.8
	Insurance Agents	1	56.50	56.5
	Jobbers	1	88.50	88.5
	Justices of the Peace	9	185.00	67.50
	Lime Manufacturers	1	52.50	52.5
	Liquor Dealers	2	74.00	87.0
	Lumber Inspectors	2	71.00	85.5
	Manufacturers	4	244.00	61.00
	Merchants	57	8,029.00	58.1
	Mine Agents	1	70.50	70.50
	Notion Store	2	98.00	46.5
	Photographers	2	68.00	84.0
- 1	Postmasters	1	29.50	29.5
,	Produce Shippers	1	38,50	38.5
	al Estate Dealers	5	319.00	68.8
	ers of Deeds	1	88 50	88,50

TABLE XXIX.—CONTINUED.—Occupations of Decedents in 1881.

Class.	OCUUPATIONS,—1881.	Number of	AGE IN Y	ARS AND	
	·	Persons.	Aggregate.	Average	
IX.	Business Men-(Continued.)				
	Retired Merchants	1	72,50	72.5	
	Restaurant-keepers	8	143.00	, 47.6	
	Salesmen	8	103.00	84.3	
	Saloon-keepers	15	649.00	43.5	
	Sash and Blind Manufacturers	1	25,50	25.	
	Secretaries	1	45.50	45.	
	Shingle Manufacturers	8	111.00	87.	
	Speculators	1	41.50	41.	
	State Officers	1	45.50	45.	
	Superintendents of Mines	1	35.50	85.	
	U. S. Marshals	1	62.50	62.	
	Water Cures	1	63.50	63.	
	Wool Buyers	,	80.50	80	
	Woolen Manufacturers	2	98,00	49	
X.	PROFESSIONAL MEN	128	6,482.00	62	
	Actors	1	77.50	77	
	Architects	1	62.50	62	
	Artists	4	166.00	41	
	Civil Engineers	1	41.50	41	
	Dentists	1	65.50	65	
	Editors	2	101.00	50	
	Lawyers	20	1,091.00	54	
	Ministers	92	1,316.00	54	
	Musicians	8	183.00	44	
	Music Teachers	8	145.00	48	
	Physicians	81	1,752.00	50	
	Priests	1	95.50	95	
	Professors	1	78.50	78	
	Reporters	1	22.50	29	
	Retired Physicians.	1	71.50	71	
	Students	5	116.00	21	
	Surgeons	1	54.50	54	
	Surveyors	1	78.50	73	
	Tenchers	19		40	
	Veterinary Surgeons		248.00	69	

TABLE XXIX.—Continued.—Occupations of Decedents in 1881.

CLASS.	OCCUPATIONS,—1881.	Number	AGE IN YEARS AND 100ths.	
	3333 22133.3, 1333	Persons.	Aggregate.	Average
XI.	UNEMPLOYED	124	7,449.00	60.07
	Paupers	8	507.00	63,88
	Pensioners	1	68,50	63.50
	Retired	10	716.00	71.60
	Tramps	1	46.50	46.50
	Unemployed	104	6,116.00	58.8
	Unknown	365	18,207.00	49.8
XII.	FEMALES	8,701	184,672.50	49.9
	Artists	1	84.50	84.50
	"At Home"	1	20,50	20.50
	Bankers	.1	51.50	51.50
	Basket-weavers	1.	42.50	42,50
	Boarding	1	77.50	77.50
	Boarding-house Keepers	8	134,00	44.6
	"Cabinet"	1	51.50	51.50
	Carpenters	2	91.00	45.50
	Carpet Weavers	1	46.50	46.50
	Cigar-makers	1	81.50	81.50
	Clerks	1	83.50	88.50
	Conductors' Wives	1	36,50	86,50
	Cooks	7	329.00	47.00
	Coopers	1	75.50	75.50
	Domestics	40	1,512.00	87.80
	Dress-makers	29	1,043.00	35.97
	Factory-girls	1	26.50	26.50
	Farmers	184	10,493.CO	57.0
	Farmers' Daughters	8	215,00	26,8
	Farmers' Wives	160	8,232.00	51.48
	Fishermen's Wives	1	42.50	42.50
Mark.	Fruit Growers' Wives	1	50,50	50,50
	Hair-dressers	1	29.50	29.50
	Housekeepers	835	43,378.00	51.90
	Manaewives	1,270	60,893.00	47,9
	756	103	4,821.00	46.8
	1440 44444	8	137.00	45.67
	"Yes	1	46.50	46.50
		20	1,015.00	0.71

TABLE XXIX.—CONTINUED.—Occupations of Decedents in 1881.

CLASS.	OCCUPATIONS,—1881.	Number of	AGE IN YEARS AND 100ths.	
		Persons.	Aggregate.	Average
XII.	FEMALES—(Continued.)			
	Laborers' Daughters	1	28.50	28.
	Laborers' Wives	12	571.00	47.8
	Landladies	1	36.50	36.
	Lawyers' Wives	1	65,50	65.8
	Life Insurance Agents	1	47.50	47.1
	Masons	1	79.50	79.8
	Matrons	14	729.00	52.0
	Mechanics' Wives	2	56,00	28,0
	Merchants	8	154.00	51.
	Merchants' Daughters	1	20.50	20.
	Merchants' Wives	8	171.00	57.
	Millers	1	59.50	59,
	Millers' Wives	1	88.50	88.
	Milliners	16	504.00	81.
	Miners	1	85.50	85.
	Music Teachers	1	20.50	20.
	Nurses	6	295.00	49.
	Paupers	7	244.00	34
	Physicians	1	74,50	74
	Retired	8	235.00	78
-	Sailors' Daughters	1	26.50	26
	Seamstresses	18	692.00	5.8
i		8	71.00	23
	Students	87	1,074.00	99
	Servants	1	80.50	80
}	Shoe-makers' Wives	19	781.00	60
ļ	Tailoresses	87	1,073.00	29
	Teachers	2	46.00	23
	Telegraph Operators	258	14,727.00	57.
	Unemployed			51
	Unknown	519	26,727.00 174.00	58.
	Washer-women	. 8		66
	Weavers.	` 7	468.00	
	Weavers' Wives	1	81,50	31
l	Widows	1	56.50	56.
	Wives	49	2,204.00	44.

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OCCUPATIONS.

The relation of deaths to occupations in Michigan cannot be traced with the most satisfactory degree of accuracy. The cause of this is the fact that individuals in this country seldom continue at one occupation any considerable time. In Europe the subject is much better studied, generations often remaining at a particular occupation.

Table XXIX., however, shows some interesting facts. Among the classes, cultivators of the earth are returned as having the greatest average duration of life.

TABLE XXIX.—Exhibiting the Number and the Aggregate and Average Ages of All Decedents in Michigan Aged 20 Years and Over, and of those whose Occupations were not Specified; also, by Classified Occupations, the Number and Aggregate and Average Ages of Decedents, Aged 20 Years and Over, whose Occupations were returned, One-half of a Year being added to Age of each Person in place of Months and Days excluded.

CLASS.	OCCUPATIONS,—1881.	Number of Persons.	AGE IN YEARS AND 100ths.	
			Aggregate.	Average
	ALL AGED 20 YEARS AND OVER,	7,926	409,099.00	51.61
	ALL SPECIFIED OCCUPATIONS,—AGED 20 YEARS AND OVER.	7,042	364,165,00	51.71
	OCCUPATIONS UNSPECIFIED,—AGED 20 YEARS AND OVER	884	41,934.00	50.83
I.	CULTIVATORS OF THE EARTH	1,879	110,358 00	58.73
.11	ACTIVE MECHANICS ABROAD	211	11,095.00	52.68
III.	ACTIVE MECHANICS IN SHOPS	237	13,620.50	57.47
IV.	INACTIVE MECHANICS IN SHOPS	132	6,577.50	49.83
v.	LABORERS,—NO SPECIAL TRADES	716	80,494.50	42.59
VI.	AGENTS, LABORERS ABROAD, ETC	156	7,006.50	44.91
VII.	SEAFABING MEN	82	1,298.00	40.56
VIII.	SOLDIERS	8	119.00	39,67
IX.	BUSINESS MEN	247	11,719.50	47.45
X.	Professional Men	123	6,482.90	52,70
XI.	UNEMPLOYED	124	7,149.00	60.07
XII.	FEMALES	8,701	184,672.50	49,90
I.	CULTIVATORS OF THE EARTH	1,879	110,859.00	58,73
	Farmers	1,849	108,832.00	58,86
	Farm Laborers	8	240.00	30.00
	Farmers' Sons	8	68.00	22,67
	Fruit-growers	1	69.50	69.50
	Gardeners	17	1,075 00	63,24
	Retired Farmers	1	73.50	73.50

CAUSES OF DEATH,—OCCUPATIONS.

TABLE XXIX .- CONTINUED .- Occupations of Decedents in 1881.

CLASS.	OCCUPATIONS,—1881.		AGE IN YEARS AND 100ths.	
		Persons.	Aggregate.	Average,
11.	ACTIVE MECHANICS ABROAD	211	11,095.00	52.58
	Brick-layers	2	105.00	52,50
	Carpenters	135	7,434.00	55.07
	Joiners	8	151.00	50.88
	Masons	21	1,141.00	54.88
	Painters	89	1,647 00	48.84
	Ship-carpenters	5	206.00	41.20
	Stone-masons	7	411.00	58,71
III.	ACTIVE MECHANICS IN SUOPS	237	13,620.50	57,47
	Bakers	6	251,00	41.83
	Basket-makers	1	100.50	100.50
	Blacksmiths.:	48	2,590.00	53.75
	Boller-makers	4	133.00	83.25
	Brewers	7	826,00	46.57
	Brick-makers	2	119.00	59.50
1	Broom-makers	1	50,50	50.50
	Cabinet-makers	9	405.00	45.00
,	Carriage-makers	1	67.50	67.50
	Carvers	1	26.50	26.50
	Chair-makers	1	\$1.50	51.50
	Confectioners.	8	84.00	28.00
	Cooks	4	209.00	52.25
	Coopers	21	1,218.00	57.76
	Coppersmiths	1	91.50	91.50
	Dyers	1	74.50	74.50
	Engineers	21	968,00	46.10
	Feather Renovators	1	21.50	21.50
	Finishers	2	63.00	84,00
	Foundrymen	1	28.50	28,50
i	Gansmiths	2	142.00	71,09
	Hoop-makers	1	28.50	28.50
	Machinists	15	718.00	47.58
	Marble-polishers	1	71.50	71,50
	Mechanics	27	1,527.00	56,56
	Millers	17	927.00	54.58
	Millwrights	2	138 00	69.09
	Molders	11	410,00	87.27

TABLE XXIX.—Continued.—Occupations of Decedents in 1881.

CLASS.	OCCUPATIONS,—1881.	Number of	AGE IN YEARS AND 100ths.	
-		Persons.	Aggregate.	Average
III.	ACTIVE MECHANICS IN SHOPS.—(Continued.)			
	Pattern-makers	8	179.00	59.
	Plasterers	5	225,00	45,0
	Plumbers	1	24.50	24.5
	Powder-makers	10	258.00	25.8
	Saw-makers	1	70.50	70.8
	Sawyers	7	253.00	36.1
	Shingle-sawyers	1	82.50	82.5
	Show-case Makers	1	-87.50	87.5
	Soap-makers	2	54.00	27.0
	Stone-cutters	4	165.00	41.9
	Stove-mounters	1	61.50	61.5
	Tanners	1	90,50	90.8
	Tinsmiths	9	325.00	86.1
	Umbrella-makers	1	62,50	62.4
	Upholsterers	8	97.60	82,1
	Wagon makers	10	500.00	50.0
	Weavers	2	158.00	76.0
-	Wheelwrights	1	86.50	86.1
	Whitewashers	1	78,50	78.
	Wood-turners	1	41.50	41.
IV.	INACTIVE MECHANICS IN SHOPS	132	6,577.50	49.0
	Barbers	17	692.00	40.
	Bookbinders	1	58.50	59.
	Cigar-makers	18	410.00	31.
	Cobblers	2	148.00	74.0
	Glass-platers	1	53.50	53.
	Harness-makers	11	519.00	47.
	Jewelers	7	223.00	81.
	Lithographers	1	22.50	22,
	Printers	10	871.00	87.
	Saddlers	1	94,50	94.
	Shoe-makers	42	2,604.00	62.0
	Silver-gilders	1	24,50	24.
	Tailors	23	1,822.00	57.
	Telegraph Operators.	2	43.00	22,0

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